Honeywell

Business and Commuter Aviation Systems
Honeywell Inc.
Box 29000
Phoenix, Arizona 85038

PRIMUS® 2000 Integrated Avionics System

Falcon 900EX

System Maintenance Manual

Volume II — System Interconnects, Maintenance Practices, Shipping, Handling and Storage, and Honeywell Support

22-05-21

TITLE PAGE T-1

PRINTED IN U.S.A. PUB. NO. A15-1146-072 1 SEPTEMBER 1996

PROPRIETARY NOTICE

This document and the information disclosed herein are proprietary data of Honeywell Inc. Neither this document nor the information contained herein shall be used, reproduced, or disclosed to others without the written authorization of Honeywell Inc., except to the extent required for installation or maintenance of recipient's equipment.

NOTICE - FREEDOM OF INFORMATION ACT (5 USC 552) AND
DISCLOSURE OF CONFIDENTIAL INFORMATION GENERALLY (18 USC 1905)

This document is being furnished in confidence by Honeywell Inc. The information disclosed herein falls within exemption (b) (4) of 5 USC 552 and the prohibitions of 18 USC 1905.

S96

Copyright 1996 Honeywell Inc.
All Rights Reserved

Please cut along the dotted line.

Honeywell

FOR HONEYWELL USE ONLY	
CONTROL NO.	
DATE RECEIVED	

CUSTOMER RESPONSE

To help us improve the quality of our publications, Honeywell encourages readers to provide input to the customer-satisfaction survey below. We welcome all comments and recommendations.

PUBLICATION INFORMATION

Publication Number		*Volume No. (Book, or Addendum)*		*ATA Number*		*Latest Issue Date From Title Page*	
Publication Title				*Document Type*	☐ CMM ☐ SDI ☐ Other ☐ GEM ☐ SMM _____		

READER INFORMATION

Please check all that apply:

☐ Trainer ☐ Technician ☐ Librarian ☐ Engineer ☐ Other *(Please specify)* _____

Your Name (optional)		*Company Name*	
Street Address		*City, State (Province), Zip Code, Country*	
Telephone Number		*FAX Number*	

CUSTOMER-SATISFACTION SURVEY

Please check the *YES* or *NO* box to answer the following questions:	Yes	No
1. Is the Publication technically accurate?	☐	☐
2. Is information easy to find?	☐	☐
3. Is information complete?	☐	☐
4. Are figures easy to use?	☐	☐
5. Are tables easy to use?	☐	☐
6. Is the Publication used for training?	☐	☐
7. Do you or your organization wish to remain on distribution for this Publication?	☐	☐

	Excellent	Good	Poor
Please rate this Publication in comparison to other documents you use.	☐	☐	☐

Please provide comments, recommendations and/or improvements that you would like to see in this publication.

_____

_____

_____

_____

_____

_____

_____

_____

Please mail or FAX completed form to Customer Support Quality Administrator. If returning by mail, please tape closed (U.S. postal regulations prohibit the use of staples). If sending by FAX, the Quality Administrator's U.S. FAX No. is (602) 436-6317.

Local reproduction of this form is encouraged.

Please cut along the dotted line.

DO NOT STAPLE

FOLD

Honeywell

NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL

FIRST CLASS PERMIT NO. 3532, PHOENIX, AZ

POSTAGE WILL BE PAID BY ADDRESSEE

HONEYWELL INC.
P.O. BOX 21111
PHOENIX, ARIZONA 85036-9975
U.S.A.

ATTN: CUSTOMER SUPPORT
QUALITY ADMINISTRATOR

AD-45434@

FOLD

DO NOT STAPLE

Please cut along the dotted line.

Honeywell

REPORT OF POSSIBLE DATA ERROR

FOR HONEYWELL USE ONLY	
CONTROL NO.	
DATE RECEIVED	

To help us improve the quality of this publication, Honeywell encourages any report of possible data error.

PUBLICATION INFORMATION

Publication Number		*Volume No. (Book, or Addendum)*		*ATA Number*		*Latest Issue Date From Title Page*	
Publication Title				*Document Type*	☐ CMM ☐ SDI ☐ Other ☐ GEM ☐ SMM _____		

READER INFORMATION

Please check all that apply:

☐ Trainer ☐ Technician ☐ Librarian ☐ Engineer ☐ Other *(Please specify)* _____

Your Name (optional)		*Company Name*	
Street Address		*City, State (Province), Zip Code, Country*	
Telephone Number		*FAX Number*	

POSSIBLE DATA ERROR

Page	*Paragraph*	*Figure*	*Table*	*Description of Possible Data Error*

HONEYWELL REPLY

Please mail or FAX completed form to Customer Support Quality Administrator. If returning by mail, please tape closed (U.S. postal regulations prohibit the use of staples). If sending by FAX, the Quality Administrator's U.S. FAX No. is (602) 436-6317.

Local reproduction of this form is encouraged.

Please cut along the dotted line.

DO NOT STAPLE

FOLD

Honeywell

NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL

FIRST CLASS PERMIT NO. 3532, PHOENIX, AZ

POSTAGE WILL BE PAID BY ADDRESSEE

HONEYWELL INC.
P.O. BOX 21111
PHOENIX, ARIZONA 85036-9975
U.S.A.

ATTN: CUSTOMER SUPPORT
QUALITY ADMINISTRATOR

AD-45434@

FOLD

DO NOT STAPLE

RECORD OF REVISIONS - VOLUME II

Upon receipt of a revision, insert the latest revised pages and dispose of superseded pages. Enter revision number and date, insertion date, and the incorporator's initials on the Record of Revisions. The typed initials HI are used when Honeywell Inc. is the incorporator.

Revision Number	Revision Date	Insertion Date	By	Revision Number	Revision Date	Insertion Date	By

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

(Blank Page)

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

LIST OF EFFECTIVE PAGES - VOLUME II

Original . . 0 . . Sep 1/1996

SUBHEADING AND PAGE	REVISION	SUBHEADING AND PAGE	REVISION
Title		3-29	0
T-1	0	3-30	0
T-2	0	3-31	0
		3-32	0
Record of Revisions		3-33	0
RR-1	0	3-34	0
RR-2	0	3-35	0
		3-36	0
List of Effective Pages		3-37	0
LEP-1	0	3-38	0
LEP-2	0	3-39	0
LEP-3	0	3-40	0
LEP-4	0	3-41	0
		3-42	0
Section 3		3-43	0
System Interconnects		3-44	0
3-1	0	3-45	0
3-2	0	3-46	0
3-3	0	3-47	0
3-4	0	3-48	0
3-5	0	3-49	0
3-6	0	3-50	0
3-7	0	3-51	0
3-8	0	3-52	0
3-9	0	3-53	0
3-10	0	3-54	0
3-11	0	3-55	0
3-12	0	3-56	0
3-13	0	3-57	0
3-14	0	3-58	0
3-15	0	3-59	0
3-16	0	3-60	0
3-17	0	3-61	0
3-18	0	3-62	0
3-19	0	3-63	0
3-20	0	3-64	0
3-21	0	3-65	0
3-22	0	3-66	0
3-23	0	3-67	0
3-24	0	3-68	0
3-25	0	3-69	0
3-26	0	3-70	0
3-27	0	3-71	0
3-28	0	3-72	0

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

SUBHEADING AND PAGE	REVISION	SUBHEADING AND PAGE	REVISION
Section 3 (cont)		3-119	0
System Interconnects		3-120	0
3-73	0	3-121	0
3-74	0	3-122	0
3-75	0	3-123	0
3-76	0	3-124	0
3-77	0	3-125	0
3-78	0	3-126	0
3-79	0	3-127	0
3-80	0	3-128	0
3-81	0	3-129	0
3-82	0	3-130	0
3-83	0	3-131	0
3-84	0	3-132	0
3-85	0	3-133	0
3-86	0	3-134	0
3-87	0	3-135	0
3-88	0	3-136	0
3-89	0	3-137	0
3-90	0	3-138	0
3-91	0	3-139	0
3-92	0	3-140	0
3-93	0	3-141	0
3-94	0	3-142	0
3-95	0	3-143	0
3-96	0	3-144	0
3-97	0	3-145	0
3-98	0	3-146	0
3-99	0	3-147	0
3-100	0	3-148	0
3-101	0	3-149	0
3-102	0	3-150	0
3-103	0	3-151	0
3-104	0	3-152	0
3-105	0	3-153	0
3-106	0	3-154	0
3-107	0	3-155	0
3-108	0	3-156	0
3-109	0	3-157	0
3-110	0	3-158	0
3-111	0	3-159	0
3-112	0	3-160	0
3-113	0	3-161	0
3-114	0	3-162	0
3-115	0	3-163	0
3-116	0	3-164	0
3-117	0	3-165	0
3-118	0	3-166	0

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

SUBHEADING AND PAGE	REVISION
Section 3 (cont)	
System Interconnects	
3-167	0
3-168	0
3-169	0
3-170	0
3-171	0
3-172	0
3-173	0
3-174	0
3-175	0
3-176	0
3-177	0
3-178	0
3-179	0
3-180	0
3-181	0
3-182	0
3-183	0
3-184	0
3-185	0
3-186	0
3-187	0
3-188	0
3-189	0
3-190	0
3-191	0
3-192	0
3-193	0
3-194	0
3-195	0
3-196	0
3-197	0
3-198	0
3-199	0
3-200	0
3-201	0
3-202	0
3-203	0
3-204	0
3-205	0
3-206	0
3-207	0
3-208	0
3-209	0
3-210	0
3-211	0
3-212	0
3-213	0
3-214	0
3-215	0
3-216	0
3-217	0
3-218	0
3-219	0
3-220	0
3-221	0
3-222	0
3-223	0
3-224	0
3-225	0
3-226	0
3-227	0
3-228	0
3-229	0
3-230	0
3-231	0
3-232	0
3-233	0
3-234	0
3-235	0
3-236	0
3-237	0
3-238	0
3-239	0
3-240	0
3-241	0
3-242	0
3-243	0
3-244	0
Table of Contents - Section 4	
TC4-1	0
TC4-2	0
Section 4	
Maintenance Practices	
4-1	0
4-2	0
4-3	0
4-4	0
4-5	0
4-6	0
4-7	0
4-8	0
4-9	0

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

SUBHEADING AND PAGE	REVISION
Section 4 (cont)	
Maintenance Practices	
4-10	0
4-11	0
4-12	0
4-13	0
4-14	0
4-15	0
4-16	0
4-17	0
4-18	0
4-19	0
4-20	0
4-21	0
4-22	0
4-23	0
4-24	0
4-25	0
4-26	0
4-27	0
4-28	0
4-29	0
4-30	0
4-31	0
4-32	0
4-33	0
4-34	0
4-35	0
4-36	0
4-37	0
4-38	0
4-39	0
4-40	0
4-41	0
4-42	0
4-43	0
4-44	0
4-45	0
4-46	0
4-47	0
4-48	0
4-49	0
4-50	0

SUBHEADING AND PAGE	REVISION
Section 5	
Shipping, Handling and Storage	
5-1	0
5-2	0
Table of Contents - Section 6	
TC6-1	0
TC6-2	0
Section 6	
Honeywell Support	
6-1	0
6-2	0
6-3	0
6-4	0
6-5	0
6-6	0
6-7	0
6-8	0
6-9	0
6-10	0

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

SECTION 3
SYSTEM INTERCONNECTS

This section provides interconnect information as an aide in troubleshooting the PRIMUS® 2000 Integrated Avionics System. The interconnect information in Table 3-1 are based on Honeywell Engineering Bulletin EB7021522, Revision A. For specific avionics wiring information, refer to the wiring diagrams in the FALCON 900EX aircraft maintenance manual.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

(Blank Page)

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information

TABLE OF CONTENTS

Para	Title	Page
1.0	(Deleted)	3-6
2.0	(Deleted)	3-6
3.0	(Deleted)	3-6
4.0	ELECTRICAL INSTALLATION	3-6
5.0	AVIONICS STANDARD COMMUNICATION BUS	3-17
6.0	DISPLAY BUS INTERFACE REQUIREMENTS	3-21
7.0	ELECTRICAL INTERCONNECT DEFINITION	3-27
8.0	SUPPLEMENTARY WIRING INFORMATION (FIGURES)	3-208
APPENDIX A	CONFIGURATION MODULE DISCRETES FOR THE FALCON 900EX	3-233

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

LIST OF FIGURES

Figure	Title	Page
4-1	Shield Grounding Philosophy	3-12
5-1	ASCB Bus Construction	3-19
5-2	ASCB Stub Construction	3-20
6-1	IAC/DU Bus Interface (Unterminated DU)	3-21
6-2	DU Display Bus Termination Provision	3-22
6-3	IAC/DU Bus Interface (Terminated DU)	3-22
6-4	WX/DU Bus Interface (Unterminated DU)	3-24
6-5	DU Picture Bus Termination Provision	3-25
6-6	WX/DU Bus Interface (Terminated DU)	3-25
8-1a	ASCB Connections Bus 1 Primary & Bus 1 Backup	3-209
8-1b	ASCB Connections Bus 2 Primary & Bus 2 Backup	3-210
8-2a	ARINC 429 Interfaces	3-211
8-2b	ARINC 429 Interfaces	3-212
8-2c	ARINC 429 Interfaces	3-213
8-2d	ARINC 429 Interfaces	3-214
8-2e	ARINC 429 Interfaces	3-215
8-2f	ARINC 429 Interfaces	3-216
8-3	RS-232 Test Connector Diagram	3-217
8-4	IRS Strapping	3-218
8-5	Weight on Wheels Switch Diagram	3-219
8-6a	Power Distribution	3-220
8-6b	Power Distribution	3-221
8-7	Lighting Power/Dimming/Lamp Test	3-222
8-8	SSEC Disable and MADC Test Switch Diagram	3-223
8-9	Pitch Trim Interface Diagram	3-224
8-10	THIS PAGE INTENTIONALLY LEFT BLANK	3-225
8-11	Miscellaneous Switches	3-226
8-12	Stick Shakers	3-227
8-13	Single Radio Altimeter	3-228
8-14	IAC/DU/WX Interfaces	3-229

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

LIST OF FIGURES (cont)

Figure	Title	Page
8-15	Alt Alert, AP Off, VIA Horns and Check PFD Annunciators	3-230
8-16	Pilot Event Marker	3-231

LIST OF TABLES

Table	Title	Page
4-1	Connector Wire Gauge Limitations	3-13
4-2	Circuit Breaker Selections	3-16

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

1.0 (Deleted)

2.0 (Deleted)

3.0 (Deleted)

4.0 ELECTRICAL INSTALLATION

This paragraph covers the electrical installation of the M1558/1563 avionics system. Paragraph 4.1 covers general installation requirements. The specific installation requirements are covered in paragraph 4.2 and 4.3.

4.1 General Requirements

4.1.1 DC Power - The aircraft DC power generator outputs must be 27.5 volts (nominal). The minimum and maximum allowable voltages are 18.0 and 32.2 V dc, respectively. The cyclic peak of ripple voltage to the mean level of the DC voltage shall be less than 2.0 volts.

NOTE: For further information about aircraft power supply requirements refer to RTCA (Radio Technical Commission for Aeronautics) Specification DO-160C.

4.1.2 Power Distribution - The Circuit Breaker configuration is divided into two categories: Pilots and Copilots. Pilot's and Copilot's Circuit Breakers should be driven by independent Aircraft Generators.

4.1.3 Interconnect

4.1.3.1 Wiring

The interconnect cabling shall be routed to minimize coupling with high current circuits including servo amplifier outputs and 28 V dc power inputs.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

4.1.3.2 Interconnect Format

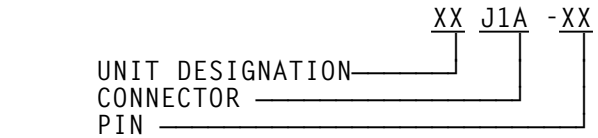
Each connection is typically shown as indicated below. Wire terminations prefaced by the letter "C" indicate the copilot's side in a dual installation. Wire terminations prefaced by the letter "E" indicate the third unit in a triple installation.

1 IO BP	2 DESCRIPTION	3 FROM PIN	4 AWG	5 SHIELDING	6 TO PIN(S)
(O)	SERVO DRIVE (H)	29J1A-1	(22)	S-T-S	29J1-2
(O)	SERVO DRIVE (L)	29J1A-2	(22)	S-T-S	29J1-1
				GND	GND

1 I = INPUT
O = OUTPUT
B = DIGITAL BUS
P = POWER
I/O = INPUT/OUTPUT

2 DESCRIPTION OF SIGNAL FUNCTION

3 FROM CONNECTION

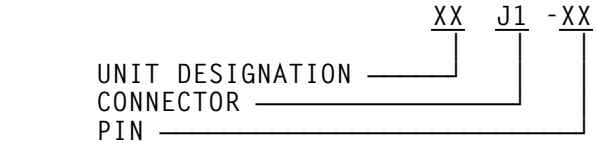


4 MINIMUM WIRE GAUGE SIZE

5 SHIELDING

S = Shield IS = Inner Shield
T = Twisted OS = Outer Shield

6 TO CONNECTION



NOTES: 1. All discrete signals include the logic type in parenthesis after the function name.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

4.1.3.3 Grounds

GOOD GROUNDS ARE A KEY FACTOR IN A GOOD INSTALLATION. Each ground should be run as a separate wire and terminated at one central point. The following special requirements should be met:

- Chassis grounds

  - The bonding of an LRU chassis will be achieved via box mounting tray contact, the tray being held at airframe ground potential by direct bolt-down of the tray to the airframe. The electrical bonding points on the aircraft must be guaranteed such that there is less than 10 milliohms resistance between the tray and the airframe.

  - For LRU's which do not have a mounting tray, the preferred method of chassis bonding shall be achieved by direct contact of the LRU to airframe ground. This method will require that the electrical bonding points on the aircraft are guaranteed such that there is less than 10 milliohms resistance between the LRU and the airframe. An alternative method is to connect a minimum length cable strap (8 AWG) from the mating connector outer shell to the airframe ground.

  - Connector pins designated 'Chassis Gnd' will not be wired unless otherwise shown in this table.

  - Chassis Gnd pins which are designated to be connected should use a minimum length wire to airframe ground.

  - The purpose of this ground shall be to ensure that the LRU chassis is at the same potential as the local airframe to prevent electrical shock hazard. Additionally, this chassis to airframe ground will provide a low impedance path for rf energy from the LRU chassis external shield, effectively shunting rf away from the internal circuitry.

    THE CHASSIS GROUNDING TECHNIQUE SHOWN ABOVE SHALL BE ADHERED TO UNLESS OTHERWISE INDICATED IN THIS TABLE.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

- All shielded wires shall have the shields grounded according to the scheme shown in paragraph 4.1.3.4. Shield ground references are shown only on critical functions. ASCB shielding requirements are specified in paragraph 5 and DU/WX bus shielding requirements are specified in paragraph 6.

- Twisted wires shall have at least two full turns per foot.

  The shields can be daisy chained as long as the total length of the wires used to connect the shields, including the wire that grounds the chain, does not exceed eight inches.

  It should be noted that the screening scheme that is followed throughout this installation bulletin was devised to achieve the best protection against a lightning strike or HIRF. However, in order to achieve the best screening against EMI, it is recommended that the shield of twisted wires is grounded at the transmitting end.

  The preferred method is no daisy chaining. If daisy chaining is required, please review the segregation of the system shields prior to daisy chaining.

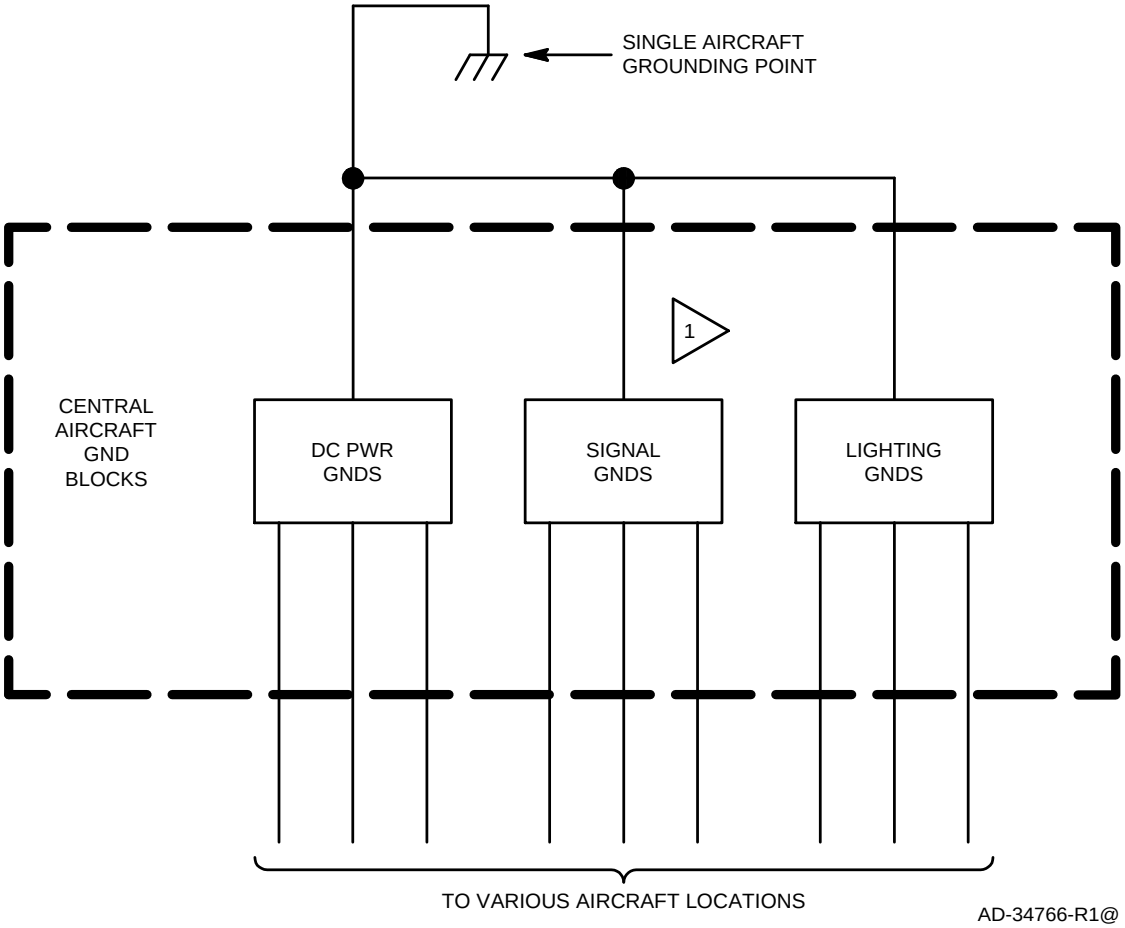
  A 20-gauge wiring should be used for tying shields to ground.

- All DC power grounds shall be tied together, all signal grounds shall be tied together, and all lighting grounds shall be tied together. DC power, signal and lighting ground groups are then tied together at a single point and connected to the airframe. The aircraft grounding diagram on the next page illustrates this grounding method.

  It is very important that this grounding technique be adhered to. Do not tie the various ground wires to multiple aircraft frame points and depend on the aircraft structure itself to provide a low impedance path for the individual grounds. ONLY chassis grounds and shield grounds are grounded at multiple points in the aircraft.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)



1 Because signal grounds are low currents, multiple signal grounds can be connected to remote aircraft terminal blocks other than the central grounding blocks as long as these remote terminal blocks are isolated from ground. The various remote signal ground blocks must all be grounded only at the aircraft central grounding point. For example, if ten signal grounds are connected to a remote terminal block, a minimum of one grounding wire must be run from this terminal block to the aircraft central grounding point.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

4.1.3.4 Grounding for F-900 (See Figure 4-1)

4.1.3.4.1 Single Shielded Cables (Except Audio)

The shields of analog (not audio) cables will be "gathered" together with other similar shields at the signal source end of each cable. A single 20 AWG pig-tail will connect the group of shields to airframe, using the LRU local earth post. The length of the pig-tail must not exceed six inches.

4.1.3.4.2 Twisted Shielded Pairs (Balanced Differential) (Except Audio)

The shields for these cables will be grounded at both ends of the cable by gathering the screens at each connector backshell. A 20 AWG pig-tail, of six inches maximum length, will connect the group of shields to the LRU local earth post.

4.1.3.4.3 Twisted Shielded Pairs (Unbalanced)

The shields of these signal cables will be grounded only at the signal source end of the cable, by gathering the shields at each connector backshell. A 20 AWG pig-tail, of six inches maximum length will connect the group of shields to the LRU local earth post.

4.1.3.4.4 Twisted Shielded Triples

The screens of these signal cables will be grounded for analog signals as in paragraph 4.1.3.4.1 and for digital signals as in paragraph 4.1.3.4.2.

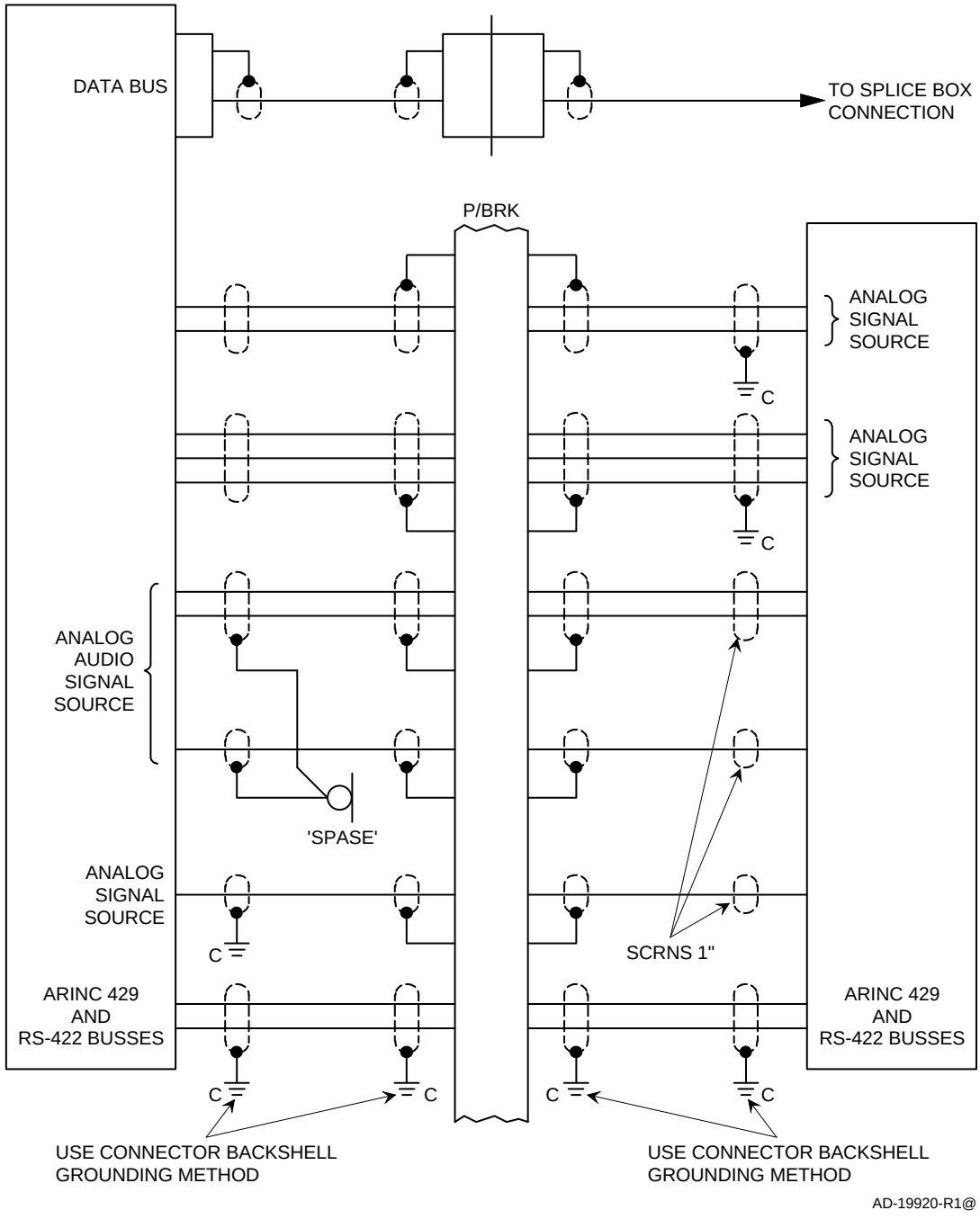
4.1.3.4.5 Audio Analog Signal Cable Screens

The signal source cable end of these shields will be connected to "spase" ground, they must not be grounded via connector backshells.

ALL WIRES SHOULD BE WIRED AS SHOWN ABOVE UNLESS OTHERWISE SHOWN WITHIN THIS TABLE.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)



Shield Grounding Philosophy
Figure 4-1

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

4.1.3.5 Connector Wire Size

Table 4-1 contains a list of system connectors and the maximum allowable gauge wire that each can accept. Wiring that comes into these connectors that has a larger gauge than the connecter pin will allow, must be spliced down to the proper gauge.

Table 4-1
Connector Wire Gauge Limitations

Unit #	Component	Connector	Wire Gauge
9	AZ-840	MS27473E20B-35S	79 @ 22 AWG
11	GC-810	J1-MS27473E20B-35SB	79 @ 22 AWG
		J2-MS27473E20B-35SD	79 @ 22 AWG
		J3-MS27473E12A-22S	22 @ 22 AWG
12/13	SM-200	MS3126F14-19S	19 @ 20 AWG
14	SM-725	MS3122E14-19S	19 @ 20 AWG
20	RT-300	MS3126F16-26S	26 @ 20 AWG
59	WU-870	MS3126F22-55S	55 @ 20 AWG
61	WC-880	J1-MS27473E14B-18S	18 @ 20 AWG
		J3-MS27473E14A-18SB	18 @ 20 AWG
115	DC-840	J1-MS27473E20B-35S	79 @ 22 AWG
		J2-MS27473E14-35S	37 @ 22 AWG
120	CD-810	MS3126F22-55SX	55 @ 20 AWG
123	DL-900	MS3126F16-26S	26 @ 20 AWG
128	SM-810	MS3106A-16S-1S	7 @ 16 AWG
130	DU-870	DPXBMA-A106-33P-0415	106 @ 22 AWG
135	RC-820	MS27473E16A-35S	55 @ 22 AWG
	RC-841	MS27473E16A-35SA	55 @ 22 AWG

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

Table 4-1 (cont)
Connector Wire Gauge Limitations

Unit #	Component	Connector	Wire Gauge
136/137	DA-800	TR2P106P106P-0001(210)	212 @ 22 AWG
149	GNSSU	M83723/77R2041N	41 @ 22 AWG
170	LASEREF III	BKAD2-313-30001	300 @ 22 AWG 4 @ 20 AWG 3 @ 16 AWG 4 @ 12 AWG 2 @ 5 AWG
172	MSU	MS3126F18-32S	32 @ 20 AWG
190	IC-800	TR4P- 106P106P106P106P-0001	424 @ 22 AWG

4.1.3.6 Aircraft Test Connectors

The M1558/1563 avionics system requires the installation of two test connectors to fully utilize the systems built in test/diagnostic capabilities. These connectors are defined in Figure 8-3.

The plan is to install the same connectors and pinout on all similarly equipped aircraft to enable the use of a common test equipment harness.

The test connectors must be installed in the cabin area to enable convenient ground and flight data collection.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

4.2 Interconnect Requirements

4.2.1 Polarities - Installing the system in accordance with the interconnect information defined in this document will result in the following servo polarities:

- Aileron Servo Clockwise = Roll left
- Elevator Servo Clockwise = Pitch down
- Rudder Actuator Extend = Yaw right

If it is impossible to maintain the above relationships, the aileron and elevator servo drive drum rotation direction can be changed by interchanging the connections to pin A with pin B and pin L with pin N on the appropriate servo. The rudder linear actuator can be reversed by interchanging the connections to pin A with pin B and pin M with pin N.

4.2.2 Engage Interlock - The Integrated Avionics Computer is electrically keyed to prevent the wrong computer from operating in an aircraft.

4.2.3 Servo Drive Electrical Keying - The engage clutch of the servo drive is electrically keyed as a function of power gear ratio to prevent the wrong servo from engaging.

4.2.4 Maintenance Test - Maintenance Test is initiated by pressing the maintenance bezel button located on the appropriate menu of the EID display bezel. The maintenance test function is interlocked with weight-on-wheels (WOW) and airspeed to ensure activation is not possible during flight.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

4.3 Circuit Breaker Selections

This paragraph provides information needed for selecting circuit breakers for the avionics system defined by Modifications 1558 and 1563. Table 4-2 quantifies the maximum power and current requirements for each system component and recommends a circuit breaker. The circuit breakers were selected assuming the following size breakers are available: 1, 2.5, 5, 7.5, 10, and 15 amps.

Table 4-2
Circuit Breaker Selections

LRU Model No.	Max Power (watts)	Worst Case Voltage for Max Power (volts)	Max Current (amps)	Circuit Breaker (amps)	Minimum Wire Size Required in Aircraft (AWG)	Maximum Wire Size in LRU Connector (AWG)
AZ-840	16	18	0.89	2.5	24	22
GC-810	21	18	1.17	2.5	24	22
IC-800	125	18	6.94	7.5	20 (note 1)	22
Autopilot	155.6	32	4.86	7.5	20 (note 1)	22
Yaw Damper	65.2	32	2.04	2.5	24	22
Autothrottle	235.5	32	7.36	10	18 (note 1)	22
RT-300	17	22	0.77	1	24	20
WU-870	110	22	5.00	7.5	20	20
WC-880	8.5	22	0.39			
DC-840	TBD	TBD	TBD	1	24	22
CD-810 (note 2)	42	22	1.91	5	22	20
	13	32	0.41			
DL-900	9	16	0.56	1	24	20
DU-870	177	18	9.83	15	16 (note 1)	22
DA-800	14 (note 3)	18	0.78	1	24	22
LP-850	28	20.5	1.37	2.5	24	22, 16
GNSSU	20	18	1.11	2.5	24	22
Laser Ref III (steady state)	80	18	4.44	7.5	20	20, 12
Laser Ref III (start up)	140	Use 27.5	5.09			
IRS Fan	29	32	0.91			N/A

Note 1: Wire in aircraft is larger than LRU connector will accept. Wiring in aircraft should use a single wire from the circuit breaker to near the LRU connector. This wire should then be spliced to one or more wires (as appropriate for a given LRU) of a gauge that can be accepted by the LRU connector. A similar method could be used for the power grounds or several wires of a gauge allowed by the LRU connector could be run individually to ground.

Note 2: First row is for main power for unit. Second row is for annunciator power. Total unit power is the sum of these values and is supplied from a single circuit breaker.

Note 3: Estimated power

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

5.0 AVIONICS STANDARD COMMUNICATION BUS (ASCB VERSION C)

The ASCB is the primary communication path between major subsystems of the avionics system defined by M1558/1563. The ASCB consists of four multipoint serial synchronous digital communications networks: two primary buses and two on-side BACKUP (BU) buses. Each bus is electrically isolated from the other buses. The ASCB bus layout is shown in Figure 8-1. The ASCB complies with RTCA Document DO-160C which requires that the following installation requirements must be met:

- There are four independent ASCBs denoted "1 PRI", "2 PRI", "1 BU", and "2 BU", each consisting of one shielded wire pair.

- The ASCB transmission line shall have a characteristic impedance of 125 ± 5 ohms. The characteristic capacitance shall be 12 ± 2 picofarads/foot. Filotex Part No. 69654, Raychem 2524E0114 (with thermorad jacket), or equivalent can be used.

- The ASCB transmission line shall be terminated at its two ends with noninductive 127 ohm resistors ±1%, 1/2 watt, metal film. The minimum cable length between the last stub and the termination resistor shall be 23 inches. Provide overbraid protection for exposed wires and resistors at the termination point.

- The ASCB transmission lines shall have a maximum length between terminators of 125 feet.

- There shall be a minimum of 23 inches of ASCB cable between adjacent stubs (ref Figure 5-1). This is necessary to minimize reflections.

- The preferred method of constructing a stub connection is shown in Figure 5-2. Using this method, the total unshielded stub length can be up to 6 inches. This 6 inch length consists of 4 inches of unshielded ASCB cable plus 2 inches of 24 AWG stranded wire. The 2 inch length of 24 AWG wire connects to the LRU connector at one end and the splice of the two ASCB wires at the other end. This 2 inch extension wire is used because more than one ASCB wire cannot be inserted into an LRU connector pin. The 6 inch stub wires shall be twisted as shown in Figure 5-2.

- Butt splices with solder rings will be utilized for all stub interconnections (ref Figure 5-2).

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

- The ASCB bus shield connections at each stub shall be accomplished with a butt splice which will provide a maximum shield to shield connection of 0.3 inches. If a stub shield is used, its maximum length is 10 inches. Connect the stub shield to the bus shield as shown in Figure 5-1 with a butt splice of minimum length (less than 2 inches) 20 AWG wire. All exposed wires at the splice and wires used to connect shields at the splice shall be covered with an overbraid material. The overbraid material shall then be tied to the shield or airframe ground.

- There shall be no unshielded portion of the ASCB. Shields should be bonded to the outer shell of each LRU.

- The Bus shields shall be grounded to the airframe ground at each LRU connector with a minimum length 20 AWG wire. Refer to paragraph 4.1.3.4 for proper shield grounding points and overbraid or backshell protection.

- The DAU shall have an in-line bus coupler connected between DAU channel B and the cross-side BACKUP ASCB bus (ref Figure 8-1). This bus coupler is used to isolate the cross-side backup ASCB bus from a DAU failure.

- It is very important that the ASCB buses be installed with consideration for damage failure modes. Therefore, the buses should be bundled separately wherever possible, should not pass through common connectors or feedthroughs, and should not be installed in high risk areas such as wing leading edges, engine shrapnel path, etc.

- To ensure the required integrity of the ASCB System, the ASCB bus paths shall be installed such that they would never all be exposed to water simultaneously. This requirement is deemed INSTALLATION CRITICAL.

- To ensure the required integrity of the ASCB System, the ASCB bus cable shall use a waterproof jacket. The jacket shall also resist caustic fluids which are likely to be found in aircraft, and shall be flame resistant. This requirement is deemed INSTALLATION CRITICAL.

- To ensure the required integrity of the ASCB System, all ASCB data buses shall not be passed through the same airframe connector. They shall be separated by side; on side in one connector, off side in the other.

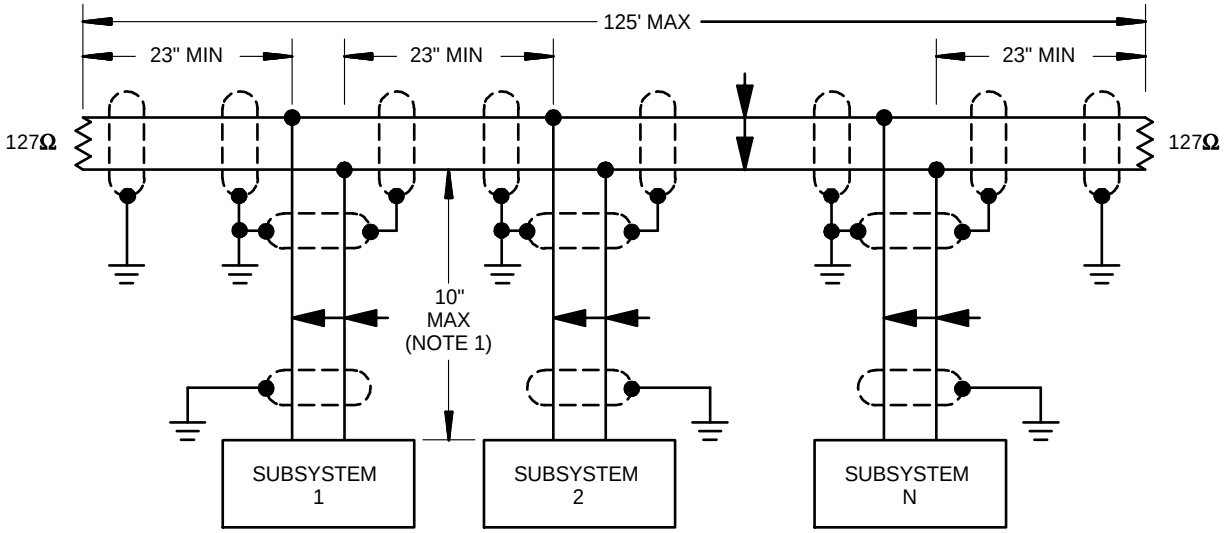
  NOTE: This requirement is not applicable to the actual LRU, only adjacent pin separation of ASCB is required in that case. This requirement is deemed INSTALLATION CRITICAL.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

- To ensure the required integrity of the ASCB System, the ASCB buses shall be separated such that no single 12" fire-axe or projectile can simultaneously cut all 4 buses. This requirement is deemed INSTALLATION CRITICAL.

- To ensure the required integrity of the ASCB System, dual bus users are connected via a bus coupler to one bus (DAU connected to the cross-side backup bus). To satisfy the 12" fire-axe requirement given above and minimize bus reflections, the bus coupler shall be located as close to the user as possible while maintaining 12" separation from at least one other bus. This requirement is deemed INSTALLATION CRITICAL.



CABLE: RAYCHEM 2524E0114 OR FILOTEX 69654
127Ω, THERMORAD JACKET

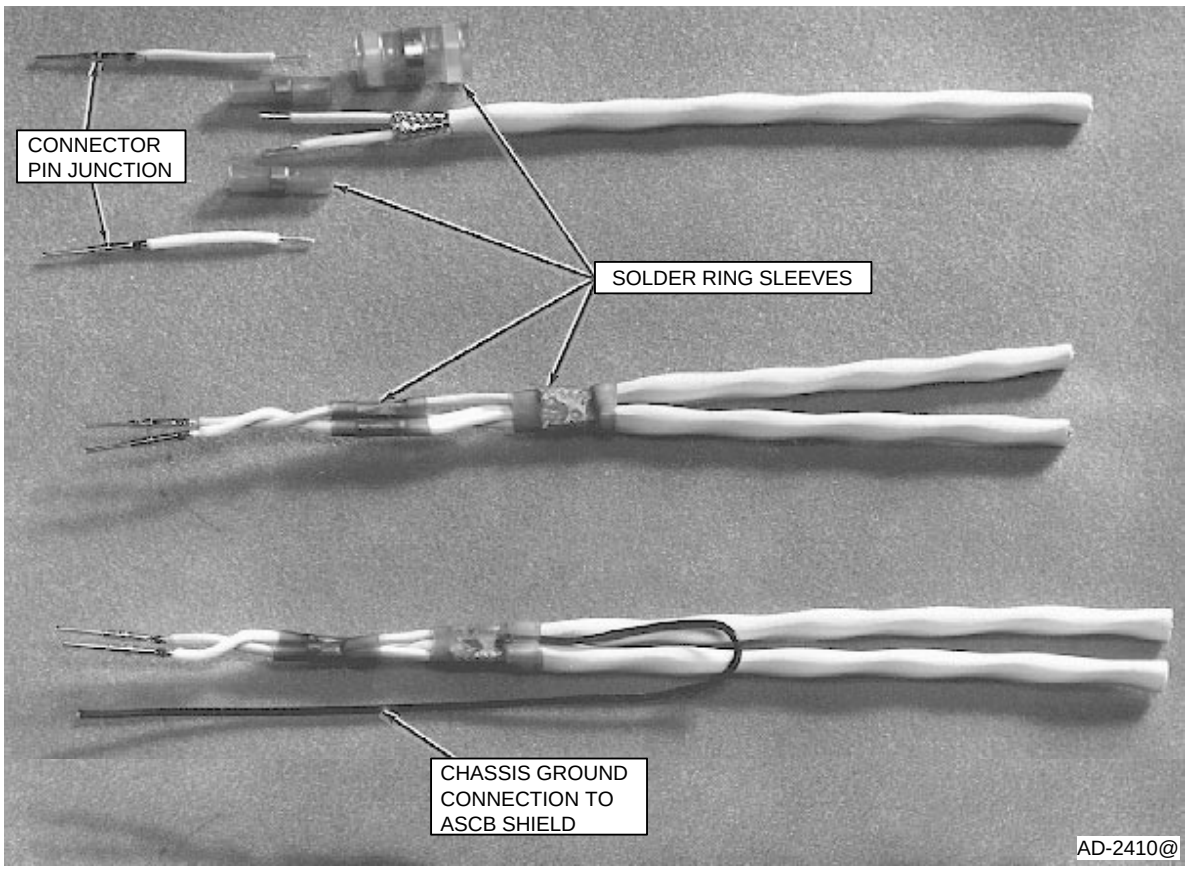
NOTES:
1. THE STUB SHIELDING CAN BE ELIMINATED BY CONSTRUCTING THE STUB AS SHOWN IN FIG. 5-2.

AD-32182-R1@

ASCB Bus Construction
Figure 5-1

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)



ASCB Stub Construction
Figure 5-2

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

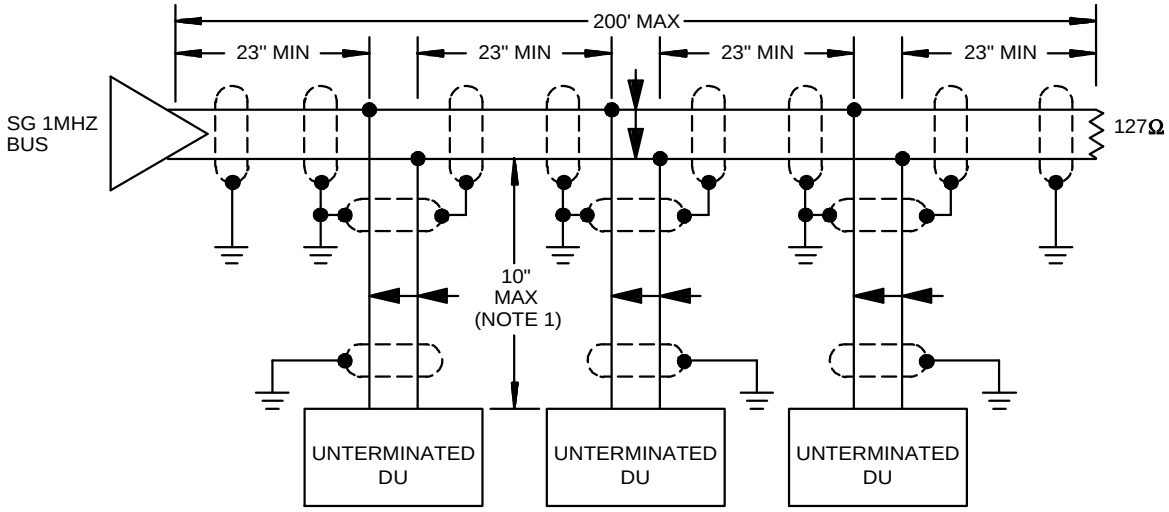
6.0 DISPLAY UNIT BUS INTERFACE REQUIREMENTS

6.1 IAC/Display Unit Bus Interface

The IAC/DU buses provide PFD, MFD, and EID data from the IACs to the DUs. The following paragraphs define the electrical interface requirements for the IAC/DU interconnect:

- The IAC/DU transmission lines must satisfy the same electrical characteristics as ASCB cable but not the same environmental characteristics. The electrical characteristic requirements are a characteristic impedance of 125 ± 5 ohms and a characteristic capacitance of 12 ±2 picofarads/foot. Raychem 2524E0114 (with thermorad jacket) cable, Filotex Part No. 69654 cable, or other cable that satisfies the stated electrical requirements can be used.

- To allow dispatch without all DUs installed, the preferred method of IAC/DU interconnect is to provide the bus termination resistors in the aircraft wiring. This allows any display or displays to be removed and not affect operation of the remaining displays. This method is shown in Figure 6-1 and Figure 8-14.



NOTES:
1. THE STUB SHEILDING CAN BE ELIMINATED BY CONSTRUCTING THE STUB AS SHOWN IN FIG. 5-2, CABLE: ASCB CABLE OR ELECTRICAL EQUIVALENT

AD-21675-R3@

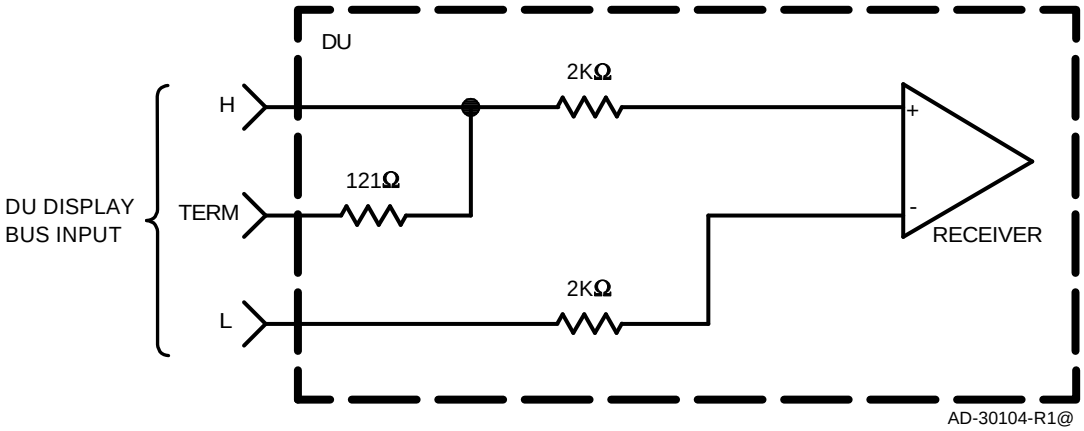
IAC/DU Bus Interface (Unterminated DU)
Figure 6-1

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

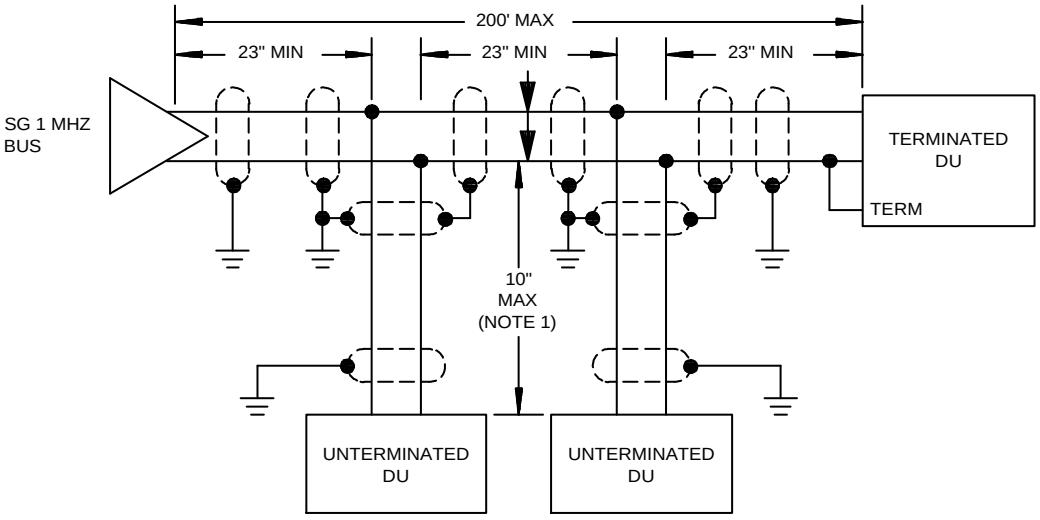
Table 3-1. Interconnect Information (cont)

- If termination resistors in the aircraft wiring are undesirable, each DU has provisions for bus termination. The high (H or +) and low (L or -) inputs are always used. To terminate a bus at a given DU, install a 6 inch maximum 24 AWG jumper wire between the (L) input and the TERM input as shown in Figure 6-2 and Figure 6-3.

  NOTE: If a terminating DU is removed from the panel, all remaining DUs utilizing that particular bus may fail to operate or may operate intermittently.



DU Display Bus Termination Provision
Figure 6-2



NOTES:
1. THE STUB SHEILDING CAN BE ELIMINATED BY CONSTRUCTING THE STUB AS SHOWN IN FIG. 5-2,
CABLE: ASCB CABLE OR ELECTRICAL EQUIVALENT

AD-21678-R3@

IAC/DU Bus Interface (Terminated DU)
Figure 6-3

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

- The maximum cable length for an IAC/DU display bus from an IAC to its termination is 200 feet.
- There shall be a minimum of 23 inches of cable between adjacent stubs (ref Figure 6-1 and 6-3).
- The preferred method of constructing a DU stub connection is the same as for the ASCB stub (ref Figure 5-2). Using this method the unshielded stub length can be up to 6 inches.
- Butt splices with solder rings will be utilized for all stub interconnections (ref Figure 5-2).
- The bus shield connections at each stub shall be accomplished with a butt splice which will provide a maximum shield to shield connection of 0.3 inches. If a stub shield is used, connect the stub shield to the bus shield with a butt splice of minimum length (less than 2 inches) 20 AWG wire. All exposed wires at the splice and wires used to connect shields at the splice shall be covered with an overbraid material. The overbraid material shall then be tied to the shield or airframe ground.
- The bus shields shall be grounded to the airframe ground at each LRU connector with a minimum length 20 AWG wire. Refer to paragraph 4.1.3.4 for proper shield grounding points and overbraid or backshell protection.
- There shall be no unshielded portion of the IAC/DU buses. Shields should be bonded to the outer shell of each LRU.
- It is very important that the IAC/DU buses in a redundant system be installed with consideration for damage failure modes. Therefore, the buses should be bundled separately wherever possible, should not pass through common connectors or feedthroughs, and should not be installed in high risk areas such as wing leading edges, engine shrapnel path, etc.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

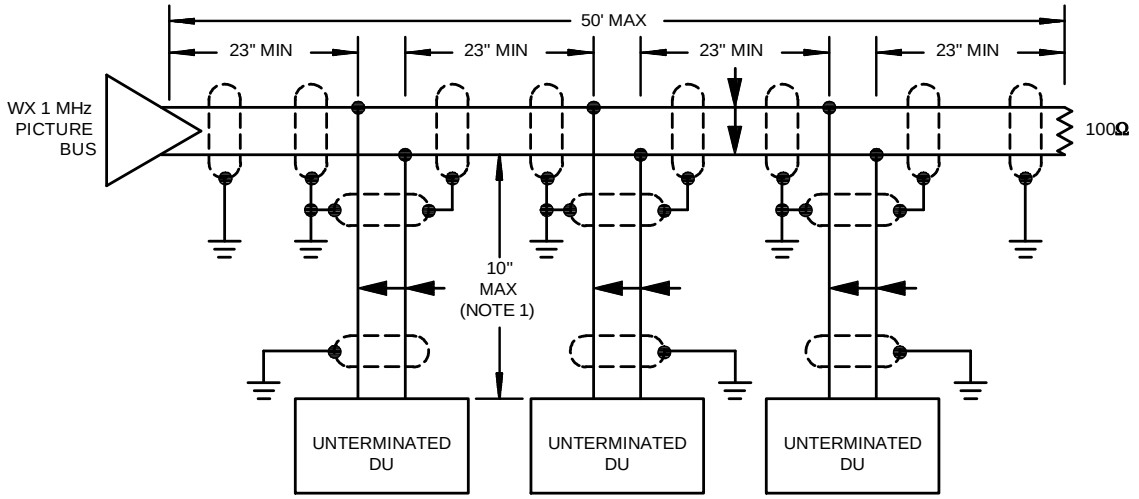
Table 3-1. Interconnect Information (cont)

6.2 WX/Display Unit Bus Interface

The WX/DU buses provide Weather Radar data from the WX unit to the DUs. The following paragraphs define the electrical interface requirements for the WX/DU interconnect:

- The WX/DU transmission lines shall have a characteristic impedance of 70 ±7 ohms. The characteristic capacitance shall be 30 picofarads/foot max. The maximum attenuation shall be 1.4 decibels/100 feet when measured at 1 MHz. Honeywell Part No. 3718911-1 cable or equivalent shall be used. (Note: ASCB type cable cannot be used).

- The preferred method of WX/DU interconnect is to provide the bus termination resistors in the aircraft wiring. This allows any display or displays to be removed and not affect operation of the remaining displays. This method is shown in Figure 6-4 and Figure 8-14.



NOTES:
1. THE STUB SHEILDING CAN BE ELIMINATED BY CONSTRUCTING THE STUB AS SHOWN IN FIG. 5-2,
   CABLE: HONEYWELL PART NO. 3718911-1 OR EQUIVALENT
   CHARACTERISTIC IMPEDANCE = 70 +/- 7 OHMS
   CHARACTERISTIC CAPACITANCE = 30 PFD/FOOT MAX
   MAX ATTENUATION = 1.4db PER 100 FEET AT 1 MHZ
   (ASCB CABLE CANNOT BE USED)

AD-30107-R1@

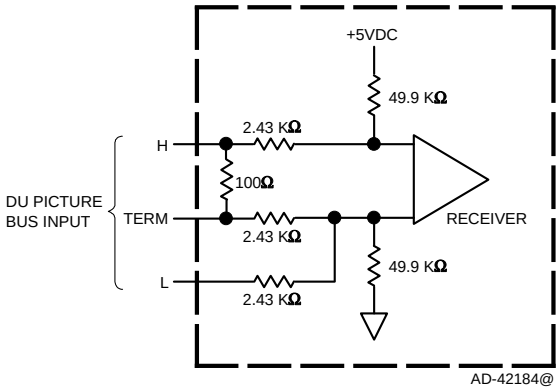
WX/DU Bus Interface (Unterminated DU)
Figure 6-4

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

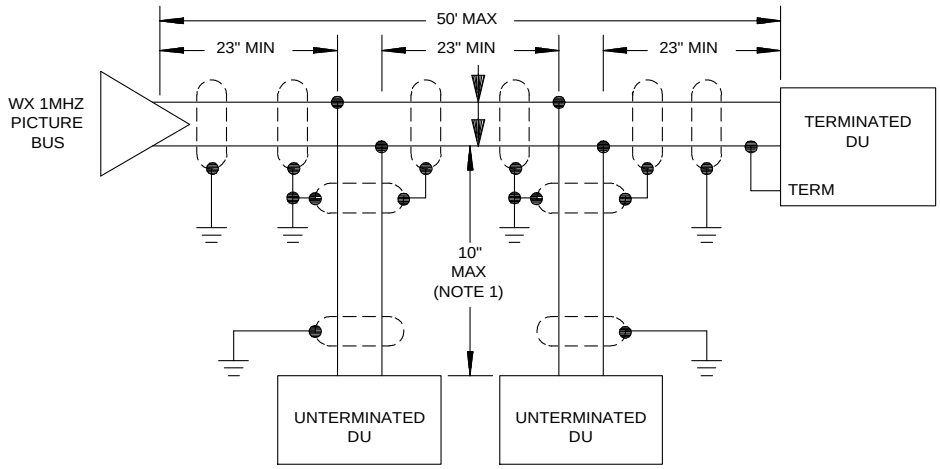
Table 3-1. Interconnect Information (cont)

- If termination resistors in the aircraft wiring are undesirable, each DU has provisions for bus termination. The high (H or +) and low (L or -) inputs are always used. To terminate a bus at a given DU, install a 6 inch maximum 24 AWG jumper wire between the (L) input and the TERM input as shown in Figure 6-5 and Figure 6-6.

  NOTE: If a terminating DU is removed from the panel, all remaining DUs utilizing that particular bus may fail to operate or may operate intermittently.



DU Picture Bus Termination Provision
Figure 6-5



NOTES:

1. THE STUB SHEILDING CAN BE ELIMINATED BY CONSTRUCTING THE STUB AS SHOWN IN FIG. 5-2,
   CABLE: HONEYWELL PART NO. 3718911-1 OR EQUIVALENT
   CHARACTERISTIC IMPEDANCE = 70 +/- 7 OHMS
   CHARACTERISTIC CAPACITANCE = 30 PFD/FOOT MAX
   MAX ATTENUATION = 1.4db PER 100 FEET AT 1 MHZ
   (ASCB CABLE CANNOT BE USED)

AD-30105-R1@

WX/DU Bus Interface (Terminated DU)
Figure 6-6

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

- The maximum cable length for a WX/DU picture bus from the WX to its termination is 50 feet.
- There shall be a minimum of 23 inches of cable between adjacent stubs (ref Figure 6-4 and 6-6).
- The preferred method of constructing a DU stub connection is the same as for the ASCB stub (ref Figure 5-2). Using this method the unshielded stub length can be up to 6 inches.
- Butt splices with solder rings will be utilized for all stub interconnections (ref Figure 5-2).
- The bus shield connections at each stub shall be accomplished with a butt splice which will provide a maximum shield to shield connection of 0.3 inches. If a stub shield is used, connect the stub shield to the bus shield with a butt splice of minimum length (less than 2 inches) 20 AWG wire. All exposed wires at the splice and wires used to connect shields at the splice shall be covered with an overbraid material. The overbraid material shall then be tied to the shield or airframe ground.
- The bus shields shall be grounded to the airframe ground at each LRU connector with a minimum length 20 AWG wire. Refer to paragraph 4.1.3.4 for proper shield grounding points and overbraid or backshell protection.
- There shall be no unshielded portion of the WX/DU buses. Shields should be bonded to the outer shell of each LRU.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

7.0 ELECTRICAL INTERCONNECT DEFINITION

This paragraph provides the electrical interconnect definition for the integrated avionics system defined by M1558/1563.

The interconnect information is ordered per unit connector designation numbers.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

MICRO AIR DATA COMPUTER (MADC) NO. 1
AZ-840

IO BP	Function	Connector Pin		Connects To
(I)	UNIT ID0 (GND/OPEN)	9J1-1	(24)----------	SIGNAL GND
(I)	UNIT ID1 (GND/OPEN)	-2		
(I)	UNIT ID2 (GND/OPEN)	-3		
(I)	UNIT ID3 (GND/OPEN)	-4	(24)----------	SIGNAL GND
(I)	UNIT ID4 (GND/OPEN)	-5		
(I)	UNIT ID5 (GND/OPEN)	-6		
(I)	UNIT ID6 (GND/OPEN)	-7		
(I)	SDI/1 (GND/OPEN)	-8	(24)----------	SIGNAL GND
(I)	SDI/2 (GND/OPEN)	-9		
(I)	SDI/3 (GND/OPEN)	-10		
	SPARE	-11		
(I)	WOW (GND/OPEN)	-12	(24)----------	FIGURE 8-5
(P)	SIGNAL GROUND	-13	(24)----------	SIGNAL GND
	SPARE	-14		
(I)	SPARE IN 1 (GND/OPEN)	-15		
(I)	SPARE IN 2 (GND/OPEN)	-16		
(I)	SPARE IN 3 (GND/OPEN)	-17		
(I)	SPARE IN 4 (GND/OPEN)	-18		
(I)	SPARE IN 1 (+28 V/OPEN)	-19		
(I)	SPARE IN 2 (+28 V/OPEN)	-20		
(O)	IAS ≥ 170 KNOTS (GND/OPEN)	-21	(24)----------	TO AIRCRAFT
(O)	IAS ≥ 210 KNOTS (GND/OPEN)	-22	(24)----------	
(O)	IAS ≥ 265 KNOTS (GND/OPEN)	-23	(24)----------	
(O)	IAS ≥ 280 KNOTS (GND/OPEN)	-24	(24)----------	
(O)	TAS ≤ 310 KNOTS (GND/OPEN)	-25	(24)----------	
(P)	+28 VDC POWER	-26	(20)----------	FIGURE 8-6
(P)	+28 VDC POWER RETURN	-27	(20)----------	DC POWER GND
(O)	OVERSPEED WARNING DISC (GND/OPEN)	-28	(24)----------	OVERSPEED HORN
(O)	MADC VALID DISC (GND/OPEN)	-29		
(B)	ASCB NO. 1 PRI (H)	-30	----------S-T-S----	FIGURE 8-1
(B)	ASCB NO. 1 PRI (L)	9J1-34	----------S-T-S----	
			GND └┘ └┘ GND	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

MICRO AIR DATA COMPUTER (MADC) NO. 1 (cont)
AZ-840

IO BP	Function	Connector Pin		Connects To
(I)	TEMPERATURE PROBE (H)	9J1-31	(24)----------S-T-S----┐	500 OHM
			| | |	TEMPERATURE
(I)	TEMPERATURE PROBE (L)	-32	(24)----------S-T-S----┘	PROBE
			GND┘ └GND	
	SPARE	-33		
		-34	SEE 9J1-30	
(I)	AOA POTENTIOMETER (H)	-35	(24)----------S-T-S----┐	ANGLE OF
(I)	AOA POTENTIOMETER (W)	-36	(24)----------S-T-S----┤	ATTACK
(I)	AOA POTENTIOMETER (L)	-37	(24)----------S-T-S----┘	POTENTIOMETER
			GND┘ └GND	
(I)	CALIBRATION ENABLE (GND/OPEN)	-38		
	SPARE	-39		
	SPARE	-40		
	SPARE	-41		
(I)	ATC SELECT (GND/OPEN)	-42		
(O)	ATC A1	-43		
(O)	ATC A2	-44		
(O)	ATC A4	-45		
(O)	ATC B1	-46		
(O)	ATC B2	-47		
(O)	ATC B4	-48		
(O)	ATC C1	-49		
(O)	ATC C2	-50		
(O)	ATC C4	-51		
(O)	ATC D4	-52		
	SPARE	-53		
	SPARE	-54		
(B)	RS-232 DATA RCVR	-55	(24)----------S-T-S----┐	
(B)	RS-232 COMMON	-56	(24)----------S-T-S----┤	FIGURE 8-3
(B)	RS-232 DATA XMTR	-57	(24)----------S-T-S----┘	
			GND┘ └GND	
(I)	RESERVED	9J1-58		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

MICRO AIR DATA COMPUTER (MADC) NO. 1 (cont)
AZ-840

IO BP	Function	Connector Pin	Connects To
(B)	ASCB NO. 1 BACKUP (H)	9J1-59 S-T-S	FIGURE 8-1
(B)	ASCB NO. 1 BACKUP (L)	-62 S-T-S (GND)	
(B)	ARINC 429 BUS 1 (H)	-60 (24) S-T-S	FIGURE 8-2
(B)	ARINC 429 BUS 1 (L)	-61 (24) S-T-S (GND)	
		-62 SEE 9J1-59	
(B)	ARINC 429 BUS 2 (H)	-63 (24) S-T-S	FIGURE 8-2
(B)	ARINC 429 BUS 2 (L)	-64 (24) S-T-S (GND)	
(B)	ASCB NO. 2 PRI (H)	-65 S-T-S	FIGURE 8-1
(B)	ASCB NO. 2 PRI (L)	-77 S-T-S (GND)	
(B)	ARINC 429 BUS 3 (H)	-66 (24) S-T-S	FIGURE 8-2
(B)	ARINC 429 BUS 3 (L)	-67 (24) S-T-S (GND)	
(B)	ARINC 429 BUS 4 (H)	-68 (24) S-T-S	FIGURE 8-2
(B)	ARINC 429 BUS 4 (L)	-69 (24) S-T-S (GND)	
(I)	FUNCTIONAL TEST (GND/OPEN)	-70 (24)	FIGURE 8-8
(I)	BARO STD SYNC (GND/OPEN)	-71 (24)	130J1-46
(I)	SSEC DISABLE	-72 (24)	FIGURE 8-8
	SPARE	-73	
(I)	BARO-CORRECTION [B0	-74 (24)	130J1-21
(I)	BARO-CORRECTION [B1	-75 (24)	130J1-25
	SPARE	-76	
		-77 SEE 9J1-65	
	SPARE	-78	
	SPARE	9J1-79	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

GUIDANCE CONTROL PANEL (GC)
GC-810

IO BP	Function	Connector Pin		Connects To
(I)	#1 ANN DATA (H)	11J1-1	(24)----------S-T-S-----	190J1D-99
(I)	#1 ANN DATA (L)	-2	(24)----------S-T-S-----	190J1D-98
			GND┘ └GND	
(I)	#1 PANEL CLOCK (H)	-3	(24)----------S-T-S-----	190J1D-97
(I)	#1 PANEL CLOCK (L)	-4	(24)----------S-T-S-----	190J1D-96
			GND┘ └GND	
(I)	#1 PANEL STROBE (H)	-5	(24)----------S-T-S-----	190J1D-51
(I)	#1 PANEL STROBE (L)	-6	(24)----------S-T-S-----	190J1D-50
			GND┘ └GND	
(O)	#1 BUTTON DATA (H)	-7	(24)----------S-T-S-----	190J1D-63
(O)	#1 BUTTON DATA (L)	-8	(24)----------S-T-S-----	190J1D-62
			GND┘ └GND	
	SPARE	-9		
(O)	SPARE (GND/OPEN)	-10		
	SPARE	-11		
	SPARE	-12		
	SPARE	-13		
(I)	CHASSIS GND	-14		
(O)	SPARE (C.S. GND/OPEN)	-15		
(O)	SPARE (GND/OPEN)	-16		
(P)	#1 +5 VDC POWER	-17	(22)----------S-T-S----	190J1D-95
(P)	#1 +5 VDC POWER RETURN	-18	(22)----------S-T-S----	190J1D-94
			GND┘ └GND	
(P)	#1 +28 VDC POWER	-19	(22)--------------------	FIGURE 8-6
(P)	#1 +28 VDC POWER RETURN	-20	(22)--------------------	DC POWER GND
	SPARE	-21		
	SPARE	-22		
	SPARE	-23		
	SPARE	-24		
(I)	SPARE (GND/OPEN)	-25		
	SPARE	-26		
	SPARE	-27		
(O)	SPARE (C.S. GND/OPEN)	11J1-28		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

GUIDANCE CONTROL PANEL (GC) (cont)
GC-810

IO BP	Function	Connector Pin	Connects To
	SPARE	11J1-29	
(I)	SPARE (C.S. GND/OPEN)	-30	
	SPARE	-31	
(I)	SECONDARY TRIM DISCONNECT (C.S. 28V/OPEN)	-32 (24)----------	FIGURE 8-9
(O)	SPARE (GND/OPEN)	-33	
(O)	SPARE (GND/OPEN)	-34	
(O)	SPARE (GND/OPEN)	-35	
(O)	SPARE (GND/OPEN)	-36	
(O)	#1 BC MODE (28V/OPEN)	-37	
(O)	SPARE (GND/OPEN)	-38	
(O)	SPARE (GND/OPEN)	-39	
(I)	#1 DIMMING LEVEL (H)	-40 (24)----------	FIGURE 8-7
(I)	#1 DIMMING LEVEL (L)	-41 (24)----------	LIGHTING GND
(O)	#1 PWM ANN DRIVE	-42	
(O)	#1 PITCH WHEEL TACH (H)	-43 (24)----------S-T-S----	190J1B-11, C190J1B-11
(O)	#1 PITCH WHEEL TACH (L)	-44 (24)----------S-T-S---- GND┘ └GND	190J1B-10, C190J1B-10
(O)	#1 ADI BC (GND/OPEN)	-45	
(I)	#1 PB ARM IN (GND/OPEN)	-46	
(O)	#1 PB ARM OUT (GND/OPEN)	-47 (24)----------	190J1A-100
	SPARE	-48	
	SPARE	-49	
	SPARE	-50	
(I)	#1 LAMP TEST (GND/OPEN)	-51 (24)----------	FIGURE 8-7
(O)	SPARE (GND/OPEN)	-52	
(I)	#2 L SEL BUTTON (GND/OPEN)	-53	
(I)	#2 R SEL BUTTON (GND/OPEN)	-54	
(I)	#2 DISABLE (GND/OPEN)	-55	
(I)	#2 RESET (GND/OPEN)	11J1-56	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

GUIDANCE CONTROL PANEL (GC) (cont)
GC-810

IO BP	Function	Connector Pin		Connects To
(I)	#1 ANN VALID (28V/OPEN)	11J1-57	(24)----------	190J1D-14
(I)	WOW (C.S. GND/OPEN)	-58	(24)----------	FIGURE 8-5
(I)	GA/TO PB (C.S. GND/OPEN)	-59	(24)----------	FIGURE 8-11
(I)	TCS PB (C.S. GND/OPEN)	-60	(24)----------	
(O)	SPARE (GND/OPEN)	-61		
	SPARE	-62		
(O)	SPARE (GND/OPEN)	-63		
(I)	SPARE (C.S. 28V/OPEN)	-64		
(I)	#1 L SEL BUTTON (GND/OPEN)	-65		
(I)	#1 R SEL BUTTON (GND/OPEN)	-66		
(I)	#1 DISABLE (GND/OPEN)	-67		
(I)	#1 RESET (GND/OPEN)	-68		
	SPARE	-69		
(I)	SPARE (GND/OPEN)	-70		
(I)	#1 AP DISCONNECT (GND/OPEN)	-71	(24)----------	FIGURE 8-11
(O)	SPARE (C.S. GND/OPEN)	-72		
(I)	SPARE (28V/OPEN)	-73		
(O)	SPARE (C.S. GND/OPEN)	-74		
(O)	AP DISENG ANN (GND/OPEN)	-75		
(O)	SPARE (C.S. GND/OPEN)	-76		
(O)	SPARE (GND/OPEN)	-77		
(P)	0-5 VDC EDGE (H)	-78	(22) ----------	FIGURE 8-7
(P)	LIGHTING (L)	11J1-79	(22) ----------	LIGHTING GND

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

GUIDANCE CONTROL PANEL (GC) (cont)
GC-810

IO BP	Function	Connector Pin		Connects To
(I)	#2 ANN DATA (H)	11J2-1	(24)----------S-T-S----	C190J1D-99
(I)	#2 ANN DATA (L)	-2	(24)----------S-T-S----	C190J1D-98
			GND┘ └GND	
(I)	#2 PANEL CLOCK (H)	-3	(24)----------S-T-S----	C190J1D-97
(I)	#2 PANEL CLOCK (L)	-4	(24)----------S-T-S----	C190J1D-96
			GND┘ └GND	
(I)	#2 PANEL STROBE (H)	-5	(24)----------S-T-S----	C190J1D-51
(I)	#2 PANEL STROBE (L)	-6	(24)----------S-T-S----	C190J1D-50
			GND┘ └GND	
(O)	#2 BUTTON DATA (H)	-7	(24)----------S-T-S----	C190J1D-63
(O)	#2 BUTTON DATA (L)	-8	(24)----------S-T-S----	C190J1D-62
			GND┘ └GND	
	SPARE	-9		
(O)	SPARE (GND/OPEN)	-10		
	SPARE	-11		
	SPARE	-12		
	SPARE	-13		
	SPARE	-14		
(O)	#2 ADI BC (GND/OPEN)	-15		
(O)	SPARE (GND/OPEN)	-16		
(P)	#2 +5 VDC POWER	-17	(22)----------S-T-S----	C190J1D-95
(P)	#2 +5 VDC POWER RETURN	-18	(22)----------S-T-S----	C190J1D-94
			GND┘ └GND	
(P)	#2 +28 VDC POWER	-19	(22)----------	FIGURE 8-6
(P)	#2 +28 VDC POWER RETURN	-20	(22)----------	DC POWER GND
(O)	SPARE (GND/OPEN)	-21		
	SPARE	-22		
(O)	SPARE (GND/OPEN)	-23		
	SPARE	-24		
	SPARE	-25		
(I)	CHASSIS GND	-26		
(I)	SPARE (GND/OPEN)	-27		
(O)	SPARE (GND/OPEN)	11J2-28		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

GUIDANCE CONTROL PANEL (GC) (cont)
GC-810

IO BP	Function	Connector Pin		Connects To
	SPARE	11J2-29		
(O)	SPARE (GND/OPEN)	-30		
	SPARE	-31		
	SPARE	-32		
(O)	SPARE (GND/OPEN)	-33		
(O)	SPARE (GND/OPEN)	-34		
(O)	SPARE (GND/OPEN)	-35		
(O)	SPARE (GND/OPEN)	-36		
(O)	#2 BC MODE (28V/OPEN)	-37		
	SPARE	-38		
	SPARE	-39		
(I)	#2 DIMMING LEVEL (H)	-40	(24)----------	FIGURE 8-7
(I)	#2 DIMMING LEVEL (L)	-41	(24)----------	LIGHTING GND
(O)	#2 PWM ANN DRIVE	-42		
(O)	#2 PITCH WHEEL TACH (H)	-43		
(O)	#2 PITCH WHEEL TACH (L)	-44		
	SPARE	-45		
(I)	#2 PB ARM IN (GND/OPEN)	-46		
(O)	#2 PB ARM OUT (GND/OPEN)	-47	(24)----------	C190J1A-100
(I)	RESERVED (AP CLUTCH)	-48		
	SPARE	-49		
	SPARE	-50		
(I)	#2 LAMP TEST (GND/OPEN)	-51	(24)----------	FIGURE 8-7
(O)	SPARE (GND/OPEN)	-52		
(I)	#1 L SEL BUTTON (GND/OPEN)	-53		
(I)	#1 R SEL BUTTON (GND/OPEN)	-54		
(I)	#1 DISABLE (GND/OPEN)	-55		
(I)	#1 RESET (GND/OPEN)	11J2-56		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

GUIDANCE CONTROL PANEL (GC) (cont)
GC-810

IO BP	Function	Connector Pin		Connects To
(I)	#2 ANN VALID (28V/OPEN)	11J2-57	(24)----------	C190J1D-14
	SPARE	-58		
(I)	SPARE (C.S. 28V/OPEN)	-59		
(I)	SPARE (C.S. GND/OPEN)	-60		
(I)	SPARE (C.S. GND/OPEN)	-61		
(I)	SPARE (C.S. GND/OPEN)	-62		
(I)	SPARE (C.S. GND/OPEN)	-63		
(I)	SPARE (C.S. GND/OPEN)	-64		
(I)	#2 L SEL BUTTON (GND/OPEN)	-65		
(I)	#2 R SEL BUTTON (GND/OPEN)	-66		
(I)	#2 DISABLE (GND/OPEN)	-67		
(I)	#2 RESET (GND/OPEN)	-68		
	SPARE	-69		
(I)	SPARE (GND/OPEN)	-70		
(I)	#2 AP DISCONNECT (GND/OPEN)	-71	(24)----------	FIGURE 8-11
	SPARE	-72		
(I)	SPARE (28V/OPEN)	-73		
	SPARE	-74		
(O)	SPARE (GND/OPEN)	-75		
	SPARE	-76		
	SPARE	-77		
	SPARE	-78		
	SPARE	11J2-79		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

GUIDANCE CONTROL PANEL (GC) (cont)
GC-810

IO BP	Function	Connector Pin		Connects To
(I)	SIGNAL GROUND	11J3-1	(24)----------	SIGNAL GND
(O)	MINIMUMS KNOB B0	-2	(24)----------	115J1-66, C115J1-66
(O)	MINIMUMS KNOB B1	-3	(24)----------	115J1-67, C115J1-67
(O)	MINIMUM MDA/DH SWITCH	-4	(24)----------	115J1-61, C115J1-61
(O)	ASEL KNOB B0	-5	(24)----------	115J1-47, C115J1-47
(O)	ASEL KNOB B1	-6	(24)----------	115J1-48, C115J1-48
(O)	ASEL 100/1000 FT SWITCH	-7	(24)----------	115J2-4, C115J2-4
(O)	IAS/MACH KNOB B0	-8	(24)----------	115J1-78, C115J1-78
(O)	IAS/MACH KNOB B1	-9	(24)----------	115J1-79, C115J1-79
(O)	IAS/MACH MAN/FMS SWITCH	-10	(24)----------	115J2-2, C115J2-2
(O)	IAS/MACH PUSH CHG BUTTON	-11	(24)----------	115J1-21, C115J1-21
(O)	IAS/MACH SEL BUTTON	-12	(24)----------	115J2-1, C115J2-1
(O)	FGC SEL 1/2 BUTTON	-13	(24)----------	115J2-3, C115J2-3
(I)	TRIM DISENGAGE BUTTON	-14		
(P)	PUSHBUTTON GND	-15		
	SPARE	-16		
	SPARE	-17		
	SPARE	-18		
	SPARE	-19		
	SPARE	-20		
	SPARE	-21		
	SPARE	11J3-22		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

AILERON SERVO
SM-200A

IO BP	Function	Connector Pin		Connects To
(I)	SERVO DRIVE (CCW DRUM ROTATION)	(H) 12J1-A	(20)----------S-T-S----	190J1C-1, C190J1C-1
(I)		(L) -B	(20)----------S-T-S---- GND GND	190J1C-2, C190J1C-2
(I)	CHASSIS GND	-C		
(P)	POSITION SYNCHRO REF 26 V AC, 400 HZ	(H) -D		
(P)		(L) -E		
(I)	SERVO CLUTCH (RESERVED)	-F		
(I)	SERVO CLUTCH (H)	-G	(20)----------S---S---- GND GND	13J1-G, 190J1C-12, C190J1C-12, 190J1D-89, C190J1D-89, E190J1D-89
(I)	SERVO CLUTCH (L)	-H	(20)----------	DC POWER GND
(I)	SERVO CLUTCH (RESERVED)	-J		
(I)	TACH SHIELD	-K		
(O)	SERVO TACH (CCW DRUM ROTATION)	(H) -L	(24)----------S-T-S----	190J1D-59, C190J1D-59
(O)		(L) -N	(24)----------S-T-S---- GND GND	190J1D-58, C190J1D-58
	SPARE	-M		
		-N	SEE 12J1-L	
(O)	POSITION SYNCHRO OUTPUT X	-P		
(O)	POSITION SYNCHRO OUTPUT Y	-R		
(O)	POSITION SYNCHRO OUTPUT Z	-S		
	SPARE	-T		
	SPARE	-U		
	SPARE	12J1-V		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

ELEVATOR SERVO
SM-200A

IO BP	Function	Connector Pin		Connects To
(I)	SERVO DRIVE (CCW DRUM ROTATION)	(H) 13J1-A	(20)----------S-T-S----	190J1C-3, C190J1C-3
(I)		(L) -B	(20)----------S-T-S---- GND GND	190J1C-5, C190J1C-5
(I)	CHASSIS GND	-C		
(P)	POSITION SYNCHRO REF 26 V AC, 400 HZ	(H) -D		
(P)		(L) -E		
(I)	SERVO CLUTCH (RESERVED)	-F		
(I)	SERVO CLUTCH (H)	-G	(20)----------S---S---- GND GND	12J1-G, 190J1C-12, C190J1C-12, 190J1D-89, C190J1D-89, E190J1D-89
(I)	SERVO CLUTCH (L)	-H	(20)----------	DC POWER GND
(I)	SERVO CLUTCH (RESERVED)	-J		
(I)	TACH SHIELD	-K		
(O)	SERVO TACH (CCW DRUM ROTATION)	(H) -L	(24)----------S-T-S----	190J1D-61, C190J1D-61
(O)		(L) -N	(24)----------S-T-S---- GND GND	190J1D-60, C190J1D-60
	SPARE	-M		
		-N	SEE 13J1-L	
(O)	POSITION SYNCHRO OUTPUT X	-P		
(O)	POSITION SYNCHRO OUTPUT Y	-R		
(O)	POSITION SYNCHRO OUTPUT Z	-S		
	SPARE	-T		
	SPARE	-U		
	SPARE	13J1-V		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

RUDDER LINEAR ACTUATOR
SM-725

IO BP	Function	Connector Pin		Connects To
(I)	MOTOR EXTEND	14J1-A	(22)----------S-T-S----	190J1C-26, C190J1C-26
(I)	INPUT RETRACT	-B	(22)----------S-T-S----	190J1C-13
			GND┘ └GND	C190J1C-13
(O)	CENTERING SWITCH EXTEND	-C	(24)----------T------	190J1D-16, C190J1D-16
(O)	RETRACT	-D	(24)----------T------	190J1D-17, C190J1D-17
(O)	CENTERING SWITCH - COM	-R	(24)----------T------	DC POWER GND
(I)	BRAKE (+)	-E	(22)----------S---S----	190J1C-10,
	GND┘ └GND	C190J1C-10,		190J1D-91, C190J1D-91, E190J1D-91
	SPARE	-F		
(P)	CHASSIS GND	-G		
	SPARE	-H		
(I)	BRAKE (-)	-J	(22)----------	DC POWER GND
	SPARE	-J		
	SPARE	-K		
	SPARE	-L		
(O)	LVDT OUTPUT (C)	-M	(24)----------S-T-S----	190J1D-54, C190J1D-54
(O)	LVDT OUTPUT (H)	-N	(24)----------S-T-S----	190J1D-55,
			GND┘ └GND	C190J1D-55
	SPARE	-P		
		-R	SEE 14J1-C	
	SPARE	-S		
	SPARE	-T		
(I)	LVDT EXCITATION (H)	-U	(24)----------S-T-S----	190J1D-70, C190J1D-70
(I)	LVDT EXCITATION (C)	14J1-V	(24)----------S-T-S----	190J1D-69,
			GND┘ └GND	C190J1D-69

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

RADIO ALTIMETER
RT-300

IO BP	Function	Connector Pin		Connects To
	SPARE	20J1-A		
(I)	TEST INHIBIT 2 (GND/OPEN)	-B		
	SPARE	-C		
(I)	TEST INHIBIT 1 (GND/OPEN)	-D		
(I)	OUTPUT TEST	-E	(24)	20J1-M
(O)	TRACK INVALID (GND/OPEN)	-F		
	SPARE	-G		
	SPARE	-H		
	SPARE	-J		
	SPARE	-K		
(O)	TRIP NO. 4 (500 FT)	-L		
(P)	+/- 15 VDC COMMON	-M	(24)	20J1-E
		-N	SEE 20J1-W, 20J1-X	
(O)	ALT TRIP COMMON	-P		
(O)	TRIP NO. 3 (50 FT)	-R		
	SPARE	-S		
(I)	TEST (GND/OPEN)	-T	(24)	FIGURE 8-13
(O)	TRIP NO. 1 (1200 FT)	-U		
(O)	TRIP NO. 2 (250 FT)	-V		
(O)	ALT OUTPUT (E_H)	-W	(24) S-T-S	FIGURE 8-13
(O)	OUTPUT COMMON	-N	(24) S-T-S (GND, GND)	FIGURE 8-13
(O)	AUX OUTPUT (H)	-X	(24) S-T-S	GPWS
(O)	OUTPUT COMMON	-N	(24) S-T-S (GND, GND)	GPWS
(O)	RAD ALT VALID (28 V/OPEN)	-Y	(24)	FIGURE 8-13
(P)	+15 VDC	-Z		
(P)	-15 VDC	-a		
(P)	+28 VDC POWER RETURN	-b	(22)	DC POWER GND
(P)	+28 VDC POWER	20J1-c	(22)	FIGURE 8-6
(O)	TRANSMIT	20J2 -S	RG-214/U	TRANSMIT ANTENNA
	SHIELD			
(I)	RECEIVE	20J3 -S	RG-214/U	RECEIVE ANTENNA
	SHIELD			

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

WEATHER RADAR RTA
P-870

IO BP	Function	Connector Pin		Connects To
(P)	28 VDC POWER	59J1-A	(20)----------	FIGURE 8-6
(P)	28 VDC POWER	-B	(20)----------	
(O)	TRANSMIT ON (GND/OPEN)	-C		
(I)	115V 400 HZ STAB REF	-D		
(I)	AIRSPEED REFERENCE	-E		
(I)	AIRSPEED SIGNAL RETURN	-F		
(I)	STAB REF COMMON	-G		
(I)	429 ADC (GND/OPEN)	-H	(24)----------	SIGNAL GND
(I)	PARALLEL ALTITUDE BUS (GND/OPEN)	-J		
(B)	ATTITUDE DATA (H)	-K	(24)----------S-T-S----	FIGURE 8-2
(B)	A-429 RCVR (L)	-L	(24)----------S-T-S----	
			GND┘ └GND	
(I)	ANALOG ROLL (H)	-M		
(I)	ANALOG ROLL (L)	-N		
(I)	200 MV/DEG	-P		
(I)	REACT COMPENSATION OVERRIDE (GND/OPEN)	-R	(24)----------	SIGNAL GND
(I)	AIRSPEED REF RETURN	-S		
(I)	WOW (GND/OPEN)	-T	(24)----------	FIGURE 8-5
(I)	REMOTE ON (GND/OPEN)	-U	(24)----------	61J1-R, C61J1-R, 190J1B-45, C190J1B-45, E190J1B-45
(I)	AIRSPEED SIGNAL	-V		
(P)	28 VDC POWER RETURN	-W	(20)----------	DC POWER GND
(P)	28 VDC POWER RETURN	-X	(20)----------	
(I)	ANALOG AIRSPEED SELECT	-Y		
(I)	26V 400HZ STAB REF	59J1-Z		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

WEATHER RADAR RTA (cont)
P-870

IO BP	Function	Connector Pin		Connects To
(B)	ALTERNATE CONTROL BUS (H)	59J1-a	(24)-----S-T-S---- GND └GND	C61J1-A
(B)	ALTERNATE CONTROL BUS (L)	-b	(24)-----S-T-S---- GND └GND	C61J1-B
(B)	PRIMARY CONTROL BUS (H)	-c	(24)-----S-T-S----	61J1-A
(B)	PRIMARY CONTROL BUS (L)	-d	(24)-----S-T-S---- GND └GND	61J1-B
(B)	RT EFIS CONTROL BUS (H)	-e	(24)-----S-T-S---- | | |	190J1A-61, C190J1A-61, E190J1A-61
(B)	RT EFIS CONTROL BUS (L)	-f	(24)-----S-T-S---- GND └GND	190J1A-62, C190J1A-62, E190J1A-62
(B)	LEFT EFIS PICTURE BUS (H)	-g	(24)-----S-T-S----	FIGURE 8-14
(B)	LEFT EFIS PICTURE BUS (L)	-h	(24)-----S-T-S---- GND └GND	FIGURE 8-14
(B)	CENTER EFIS PICTURE BUS (H)	-i		
(B)	CENTER EFIS PICTURE BUS (L)	-j		
(B)	RIGHT EFIS PICTURE BUS (H)	-k	(24)-----S-T-S----	FIGURE 8-14
(B)	RIGHT EFIS PICTURE BUS (L)	-s	(24)-----S-T-S---- GND └GND	FIGURE 8-14
(B)	LEFT EFIS CONTROL BUS (H)	-m	(24)-----S-T-S---- | | |	190J1A-37, C190J1A-37, E190J1A-37
(B)	LEFT EFIS CONTROL BUS (L)	-n	(24)-----S-T-S---- GND └GND	190J1A-36, C190J1A-36, E190J1A-36
(I)	CONTROL BUS SHIELD	-p		
(I)	PICTURE BUS SHIELD	-q		
(B)	DADC DATA A-429 RCVR (L)	-r	(24)-----S-T-S----	FIGURE 8-2
(B)	DADC DATA A-429 RCVR (H)	59J1-t	(24)-----S-T-S---- GND └GND	FIGURE 8-2

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

WEATHER RADAR RTA (cont)
P-870

IO BP	Function	Connector Pin	Connects To
		59J1-s	SEE 59J1-k
		-t	SEE 59J1-r
(I)	PARALLEL ALTITUDE BUS	-u	
(I)		-v	
(I)		-w	
(I)		-x	
(I)		-y	
(I)		-z	
	SPARE	-AA	
	SPARE	-BB	
	SPARE	-CC	
	SPARE	-DD	
	SPARE	-EE	
	SPARE	-FF	
	SPARE	-GG	
	RESERVED	59J1-HH	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

WEATHER RADAR CONTROLLER NO. 1
WC-880

IO BP	Function	Connector Pin		Connects To
(B)	SERIAL CONTROL (H)	61J1-A	(24)----------S-T-S----	59J1-c
(B)	SERIAL CONTROL (L)	-B	(24)----------S-T-S----	59J1-d
			GND┘ └GND	
	SPARE	-C		
(P)	28 VDC POWER	-D	(22)----------	FIGURE 8-6
(P)	28 VDC POWER RETURN	-E	(22)----------	DC POWER GND
(I)	CHASSIS GROUND	-F		
(P)	0-28 VDC EDGE LIGHTING (H)	-G		
(P)	0-5 VDC EDGE LIGHTING (H)	-H	(22)----------	FIGURE 8-7
(P)	LIGHTING COMMON	-J	(22)----------	LIGHTING GND
(I)	+28 VDC ANNUN LIGHTING DIM	-K	(22)----------	FIGURE 8-7
(I)	RANGE UP	-L	(24)----------	19OJ1B-29, C19OJ1B-29, E19OJ1B-29
(I)	SHIELD GND	-M		
(I)	RANGE DN	-N	(24)----------	19OJ1B-30, C19OJ1B-30, E19OJ1B-30
(I)	FORCED SBY NO. 1 (GND/OPEN)	-P	(24)----------	FIGURE 8-5
(O)	REMOTE ON (GND/OPEN)	-R	(24)----------	59J1-U, C61J1-R, 19OJ1B-45, C19OJ1B-45, E19OJ1B-45
(I)	FORCED SBY NO. 2 (GND/OPEN)	-S		
(I)	OFF IN	-T	(24)----------	C61J1-U
(O)	OFF OUT	61J1-U	(24)----------	C61J1-T

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

WEATHER RADAR CONTROLLER NO. 1
WC-880

IO BP	Function	Connector Pin		Connects To
	SPARE	61J3-A		
	SPARE	-B		
	SPARE	-C		
	SPARE	-D		
(O)	POWER ON (NO)	-E	(24)----------	145J1B-66
	SPARE	-F		
	SPARE	-G		
(O)	LX-STBY	-H	(24)----------	145J1B-64
(O)	LX ENABLE (NO)	-J	(24)----------	145J1B-65
(O)	LX-CLR/TEST	-K	(24)----------	145J1B-63
(I)	CTL PANEL RETURN	-L	(24)----------	145J1B-61
(I)	CTL PANEL RETURN	-M		
	SPARE	-N		
	SPARE	-P		
	SPARE	-R		
	SPARE	-S		
	SPARE	-T		
	SPARE	61J3-U		

Note: This page is used only if Honeywell Lightning Sensor System is installed

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY CONTROLLER (DC) NO. 1
DC-840

IO BP	Function	Connector Pin	Connects To
(P)	28 V DC POWER RETURN	115J1-1 (22)	DC POWER GND
(I)	SIGNAL GROUND	-2 (24)	SIGNAL GND
(I)	CHASSIS GROUND	-3	
(B)	RS-422 XMTR #1 (H)	-4 (24)	190J1A-50
(B)	RS-422 XMTR #1 (L)	-5 (24)	190J1A-49
		GND	GND
	RESERVED (CLK EN)	-6	
(B)	RS-422 XMTR #2 (H)	-7 (24)	C190J1A-50, E190J1A-50
(B)	RS-422 XMTR #2 (L)	-8 (24)	C190J1A-49, E190J1A-49
		GND	GND
	RESERVED (CLK T)	-9	
	SPARE	-10	
(O)	SPARE PB (GND/OPEN)	-11	
(O)	BRG 0 VOR1 (GND/OPEN)	-12	
(O)	BRG 0 ADF1 (GND/OPEN)	-13	
(O)	BRG 0 FMS1 (GND/OPEN)	-14	
(O)	BRG <> VOR2 (GND/OPEN)	-15	
(O)	BRG <> ADF2 (GND/OPEN)	-16	
(O)	BRG <> FMS2 (GND/OPEN)	-17	
(I)	SPARE PB (GND/OPEN)	-18	
(I)	SPARE PB (GND/OPEN)	-19	
(I)	SPARE PB (GND/OPEN)	-20	
(I)	SPEED PUSH CHG (GND/OPEN)	-21 (24)	11J3-11, C115J1-21
(O)	CRS PUSH DCT #1 (GND/OPEN)	-22	
(O)	HDG/TRK SEL #1 (GND/OPEN)	-23	
(O)	H/T PUSH SYNC #1 (GND/OPEN)	-24	
(I)	DU #2 PB0 (GND/OPEN)	-25 (24)	131J1-62, C115J1-25
(I)	DU #2 PB1 (GND/OPEN)	-26 (24)	131J1-60, C115J1-26
(I)	DU #2 PB2 (GND/OPEN)	-27 (24)	131J1-51, C115J1-27
(I)	DU #2 PB3 (GND/OPEN)	115J1-28 (24)	131J1-50, C115J1-28

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY CONTROLLER (DC) NO. 1 (CONT)
DC-840

IO BP	Function	Connector Pin	Connects To
(I)	DU #2 KNOB BO	115J1-29 (24)	131J1-21, C115J1-29
(I)	DU #2 KNOB B1	-30 (24)	131J1-25, C115J1-30
(I)	DU #2 PB4 (GND/OPEN)	-31 (24)	131J1-47, C115J1-31
(I)	DU #2 PB5 (GND/OPEN)	-32 (24)	131J1-46, C115J1-32
(I)	SPARE PB (GND/OPEN)	-33	
(I)	DU #3 PB0 (GND/OPEN)	-34 (24)	132J1-62, C115J1-34
(I)	DU #3 PB1 (GND/OPEN)	-35 (24)	132J1-60, C115J1-35
(I)	DU #3 PB2 (GND/OPEN)	-36 (24)	132J1-51, C115J1-36
(I)	DU #3 KNOB BO	-37 (24)	132J1-21, C115J1-37
(I)	DU #3 KNOB B1	-38 (24)	132J1-25, C115J1-38
(I)	DU #3 PB3 (GND/OPEN)	-39 (24)	132J1-50, C115J1-39
(I)	DU #3 PB4 (GND/OPEN)	-40 (24)	132J1-47, C115J1-40
(I)	DU #3 PB5 (GND/OPEN)	-41 (24)	132J1-46, C115J1-41
(I)	SPARE PB (GND/OPEN)	-42	
(I)	DU #4 PB0 (GND/OPEN)	-43 (24)	C131J1-62, C115J1-43
(I)	DU #4 PB1 (GND/OPEN)	-44 (24)	C131J1-60, C115J1-44
(I)	DU #4 KNOB BO	-45 (24)	C131J1-21, C115J1-45
(I)	DU #4 KNOB B1	-46 (24)	C131J1-25, C115J1-46
(I)	ALT SEL KNOB BO	-47 (24)	11J3-5, C115J1-47
(I)	ALT SEL KNOB B1	-48 (24)	11J3-6, C115J1-48
(I)	DU #4 PB2 (GND/OPEN)	-49 (24)	C131J1-51, C115J1-49
(I)	DU #4 PB3 (GND/OPEN)	115J1-50 (24)	C131J1-50, C115J1-50

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY CONTROLLER (DC) NO. 1 (CONT)
DC-840

IO BP	Function		Connector Pin		Connects To
(I)	DU #4 PB4 (GND/OPEN)		115J1-51	(24)	C131J1-47, C115J1-51
(I)	DU #4 PB5 (GND/OPEN)		-52	(24)	C131J1-46, C115J1-52
(I)	SPARE PB (GND/OPEN)		-53		
(I)	IRS REV #1 (GND/OPEN)		-54	(24)	135J1-52, C115J1-54
(I)	ADC REV #1 (GND/OPEN)		-55	(24)	135J1-51, C115J1-55
(I)	IRS REV #2 (GND/OPEN)		-56	(24)	C135J1-52, C115J1-56
(I)	ADC REV #2 (GND/OPEN)		-57	(24)	C135J1-51, C115J1-57
(I)	DAU 1 REV (GND/OPEN)		-58	(24)	E135J1-51, C115J1-58
(P)	28 V DC POWER		-59	(22)	FIGURE 8-6
(I)	DAU 2 REV (GND/OPEN)		-60	(24)	E135J1-52, C115J1-60
(I)	DH/MDA (GND/OPEN)		-61	(24)	11J3-4, C115J1-61
	SPARE		-62		
	SPARE		-63		
	SPARE		-64		
	SPARE		-65		
(I)	MIN SEL KNOB	B0	-66	(24)	11J3-2, C115J1-66
(I)		B1	-67	(24)	11J3-3, C115J1-67
(O)	HDG/TRK KNOB	B0	-68		
(O)		B1	-69		
(O)	CRS KNOB	B0	-70		
(O)		B1	-71		
(I)	SPARE KNOB	B0	-72		
(I)		B1	-73		
(I)	SPARE KNOB	B0	-74		
(I)		B1	115J1-75		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY CONTROLLER (DC) NO. 1 (CONT)
DC-840

IO BP	Function	Connector Pin	Connects To
(P)	0-5 V DC EDGE LIGHTING (H)	115J1-76 (22)	FIGURE 8-7
(P)	0-5 V DC EDGE LIGHTING (L)	-77 (22)	LIGHTING GND
(I)	IAS/MACH KNOB B0	-78 (24)	11J3-8, C115J1-78
(I)	IAS/MACH KNOB B1	115J1-79 (24)	11J3-9, C115J1-79
(I)	IAS/MACH SEL PB (GND/OPEN)	115J2-1 (24)	11J3-12, C115J2-1
(I)	IAS/MACH MAN/FMS SW (GND/OPEN)	-2 (24)	11J3-10, C115J2-2
(I)	FGC SEL 1/2 PB (GND/OPEN)	-3 (24)	11J3-13, C115J2-3
(I)	ASEL 100/1000 FT SW (GND/OPEN)	-4 (24)	11J3-7, C115J2-4
(I)	RAD ALT REV #1 (GND/OPEN)	-5 (24)	135J1-18, C115J2-5
(I)	RAD ALT REV #2 (GND/OPEN)	-6 (24)	C135J1-18, C115J2-6
(I)	SPARE PB (GND/OPEN)	-7	
(I)	DU #1 PB0 (RESERVED) (GND/OPEN)	-8	
(I)	DU #1 PB1 (RESERVED) (GND/OPEN)	-9 (24)	130J1-60, C115J2-9
(I)	DU #1 PB2 (FPA) (GND/OPEN)	-10 (24)	130J1-51, C115J2-10
(I)	DU #1 PB3 (METRIC) (GND/OPEN)	-11 (24)	130J1-50, C115J2-11
(I)	DU #1 PB4 (IN/HPA) (GND/OPEN)	-12 (24)	130J1-47, C115J2-12
(I)	DU #1 PB5 (RESERVED) (GND/OPEN)	-13	
(I)	SPARE PB (GND/OPEN)	115J2-14	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY CONTROLLER (DC) NO. 1 (CONT)
DC-840

IO BP	Function	Connector Pin	Connects To
(I)	SG TEST #1 (GND/OPEN)	115J2-15 (24)----------	135J1-49, C115J2-15, 190J1B-51
(I)	SG TEST #2 (GND/OPEN)	-16 (24)----------	C135J1-49, C115J2-16, C190J1B-51
(I)	SG TEST #3 (GND/OPEN)	-17 (24)----------	E135J1-49, C115J2-17, E190J1B-51
(I)	ANNUN TEST (GND/OPEN)	-18 (24)----------	FIGURE 8-7
(I)	SPARE PB (GND/OPEN)	-19	
(I)	SPARE PB (GND/OPEN)	-20	
(I)	SPARE PB (GND/OPEN)	-21	
(I)	DU #5 PB0 (RESERVED) (GND/OPEN)	-22	
(I)	DU #5 PB1 (RESERVED) (GND/OPEN)	-23 (24)----------	C130J1-60, C115J2-23
(I)	DU #5 PB2 (FPA) (GND/OPEN)	-24 (24)----------	C130J1-51, C115J2-24
(I)	DU #5 PB3 (METRIC) (GND/OPEN)	-25 (24)----------	C130J1-50, C115J2-25
(I)	DU #5 PB4 (IN/HPA) (GND/OPEN)	-26 (24)----------	C130J1-47, C115J2-26
(I)	DU #5 PB5 (RESERVED) (GND/OPEN)	-27	
(I)	SPARE PB (GND/OPEN)	-28	
	SPARE	-29	
	SPARE	-30	
	SPARE	-31	
	SPARE	-32	
	SPARE	-33	
	SPARE	-34	
	SPARE	-35	
	SPARE	-36	
	SPARE	115J2-37	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

CONTROL DISPLAY UNIT (CDU) NO. 1
CD-810

IO BP	Function		Connector Pin		Connects To
	SPARE		12OJ1-A		
(P)	+28 VDC POWER		-B	(2O)----------	FIGURE 8-6
(P)	+28 VDC POWER RETURN		-C	(2O)----------	DC POWER GND
(P)	LIGHTING COMMON (L)		-D	(22)----------	LIGHTING GND
	SPARE		-E		
(P)	28 V ANN POWER (H)		-F	(22)----------	FIGURE 8-6
(I)	CHASSIS GND		-G		
(P)	28 V ANN POWER (L)		-H	(22)----------	DC POWER GND
(P)	O-5 V PANEL LIGHTING (H)		-J	(22)----------	FIGURE 8-7
(P)	28 V PANEL LIGHTING (H)		-K		
	SPARE		-L		
(B)	NAV DATA OUT	(H)	-M	(24)----------S-T-S----	19OJ1C-72
(B)	RS-422 XMTR	(L)	-N	(24)----------S-T-S----	19OJ1C-71
				GND┘ └GND	
(B)	NAV DATA TRM RDY	(H)	-P	(24)----------S-T-S----	19OJ1C-59
(B)	RS-422 XMTR	(L)	-R	(24)----------S-T-S----	19OJ1C-58
				GND┘ └GND	
(B)	NAV DATA IN	(H)	-S	(24)----------S-T-S----	19OJ1C-52
(B)	RS-422 RCVR	(L)	-T	(24)----------S-T-S----	19OJ1C-51
				GND┘ └GND	
(B)	NAV CLR TO SEND	(H)	-U	(24)----------S-T-S----	19OJ1C-49
(B)	RS-422 RCVR	(L)	-V	(24)----------S-T-S----	19OJ1C-48
				GND┘ └GND	
(B)	NAV CLK IN	(H)	-W	(24)----------S-T-S----	19OJ1C-64
(B)	RS-422 RCVR	(L)	-X	(24)----------S-T-S----	19OJ1C-63
				GND┘ └GND	
(B)	PERF DATA OUT	(H)	-Y		
(B)	RS-422 XMTR	(L)	-Z		
(B)	PERF DATA TRM RDY	(H)	-a		
(B)	RS-422 XMTR	(L)	12OJ1-b		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

CONTROL DISPLAY UNIT (CDU) NO. 1 (cont)
CD-810

IO BP	Function	Connector Pin		Connects To
(B)	PERF DATA IN (H)	12OJ1-c		
(B)	RS-422 RCVR (L)	-d		
(B)	PERF CLR TO SEND (H)	-e		
(B)	RS-422 RCVR (L)	-f		
(B)	PERF CLK IN (H)	-g		
(B)	RS-422 RCVR (L)	-h		
(O)	CDU VALID (GND/OPEN)	-i	(24)----------	19OJ1B-42
	SPARE	-j		
	SPARE	-k		
(O)	R PHOTO SENSOR OUT	-m		
(O)	L PHOTO SENSOR OUT	-n		
	SPARE	-p		
(I)	DIM CALIBRATION	-q		
	SPARE	-r		
(I)	LAMP TEST (GND/OPEN)	-s	(24)----------	FIGURE 8-7
	SPARE	-t		
	SPARE	-u		
(I)	ANNUN DIMMING ENABLE (28V/OPEN)	-v	(24)----------	FIGURE 8-6
(I)	ANNUN INTENSITY CONTROL (0-28 V)	-w	(24)----------	FIGURE 8-7
	SPARE	-x		
	SPARE	-y		
	SPARE	-z		
	SPARE	-AA		
	SPARE	-BB		
	SPARE	-CC		
(I)	COLOR/MONO	-DD		
(I)	TEST ENABLE (GND/OPEN)	-EE		
	SPARE	-FF		
	SPARE	-GG		
	SPARE	12OJ1-HH		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DATA LOADER
DL-900

IO BP	Function	Connector Pin	Connects To
	RESERVED (PWRVAL*)	123J1-A	
(P)	+28 VDC POWER RETURN	-B (22)	DC POWER GND
(P)	+28 VDC POWER	-C (22)	FIGURE 8-6
(O)	LOADER CONNECTED RIGHT (GND/OPEN)	-D (24)	C190J1D-4
(O)	LOADER CONNECTED LEFT (GND/OPEN)	-E (24)	190J1D-4
(O)	LOADER CONNECTED AUX (GND/OPEN)	-F (24)	E190J1D-4
(B)	DATA IN RS-422 RCVR (L)	-G (24) S-T-S	190J1A-46, C190J1A-46, E190J1A-46
(B)	(H)	-H (24) S-T-S (GND)	190J1A-45, C190J1A-45, E190J1A-45
(B)	CLK IN RS-422 RCVR (L)	-J (24) S-T-S	190J1A-98, C190J1A-98, E190J1A-98
(B)	(H)	-K (24) S-T-S (GND)	190J1A-97, C190J1A-97, E190J1A-97
	RESERVED (SELFTEST)	-L	
	RESERVED (BAUDSEL)	-M	
	RESERVED (TESTDIS)	-N	
	RESERVED (VPP)	-P	
(I)	SIGNAL GROUND	-R (24)	SIGNAL GND
(B)	DATA OUT RS-422 XMTR (L)	-S (24) S-T-S	190J1A-64, C190J1A-64, E190J1A-64
(B)	(H)	-T (24) S-T-S (GND)	190J1A-63, C190J1A-63, E190J1A-63
	SPARE	-U	
(B)	RS-232 COMMON	-V (24) S-T-S	FIGURE 8-3
(B)	RS-232 XMTR	-Z (24) S-T-S	
(B)	RS-232 RCVR	123J1-a (24) S-T-S (GND)	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DATA LOADER (cont)
DL-900

IO BP	Function	Connector Pin	Connects To
(B)	RS-232 DATA SET RDY	123J1-W	
(B)	RS-232 CLR TO SEND	-X	
(B)	RS-232 REQ TO SEND	-Y	
		-Z	SEE 123J1-V
		-a	SEE 123J1-V
(I)	CHASSIS GND	-b	
	SPARE	123J1-c	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

AUTOTHROTTLE SERVO NO. 1
SM-810

IO BP	Function		Connector Pin		Connects To
(O)	SERVO TACH	(H)	128J1-A	(24)----------S-T-S----	E190J1D-59
(O)	(CCW ROTATION)	(L)	-D	(24)----------S-T-S----	E190J1D-58
				GND┘ └GND	
(I)	SERVO DRIVE	(H)	-B	(20)----------S-T-S----	E190J1C-1
(I)	(CCW ROTATION)	(L)	-C	(20)----------S-T-S----	E190J1C-2
				GND┘ └GND	
			-D	SEE 128J1-A	
(I)	SERVO CLUTCH	(H)	-E	(20)----------S---S----	E190J1C-12,
				GND┘ └GND	C128J1-E
(I)	SERVO CLUTCH	(L)	-F	(20)----------	DC POWER GND
(I)	CHASSIS GND		128J1-G		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

AUTOTHROTTLE SERVO NO. 3
SM-810

IO BP	Function	Connector Pin		Connects To
(O)	SERVO TACH (CCW ROTATION)	(H) E128J1-A	(24)----------S-T-S----	E190J1D-55
(O)		(L) -D	(24)----------S-T-S----	E190J1D-54
			GND┘ └GND	
(I)	SERVO DRIVE (CCW ROTATION)	(H) -B	(20)----------S-T-S----	E190J1C-26
(I)		(L) -C	(20)----------S-T-S----	E190J1C-13
			GND┘ └GND	
		-D	SEE E128J1-A	
(I)	SERVO CLUTCH	(H) -E	(20)----------S---S----	E190J1C-10
			GND┘ └GND	
(I)	SERVO CLUTCH	(L) -F	(20)----------	DC POWER GND
(I)	CHASSIS GND	E128J1-G		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY UNIT NO. 1
DU-870

IO BP	Function		Connector Pin		Connects To
(I)	BRIGHTNESS POT	(H)	130J1-1	(24)----------S-T-S----	135J1-1
(I)		(L)	-13	(24)----------S-T-S----	135J1-3
(I)		(W)	-14	(24)----------S-T-S----	135J1-2
				GND┘ └NC	
(I)	WX DIMMING	(H)	-2		
(I)		(L)	-3		
(I)		(W)	-15		
	RESERVED		-4		
	RESERVED		-5		
	RESERVED		-6		
	RESERVED		-7		
	SPARE		-8		
	RESERVED		-9		
	RESERVED		-10		
	RESERVED		-11		
	RESERVED		-12		
			-13	SEE 130J1-1	
			-14	SEE 130J1-1	
			-15	SEE 130J1-2	
	RESERVED		-16		
	RESERVED		-17		
	RESERVED		-18		
(B)	BUS 3	(H)	-19	----------S-T-S----	FIGURE 8-14
(B)	BUS 3 NO TERM	(L)	-20	----------S-T-S----	
				GND┘ └GND	
(O)	BARO KNOB (BO)		-21	(24)----------	9J1-74
(I)	DU PWR DN (GND/OPEN)		-22	(24)----------	135J1-8
(P)	0-5 VDC EDGE	(H)	-23	(22)----------	FIGURE 8-7
(P)	LIGHTING	(L)	-24	(22)----------	LIGHTING GND
(O)	BARO KNOB (B1)		-25	(24)----------	9J1-75
(I)	REMOTE LT SENSOR (H)		-26		
(I)	REMOTE LT SENSOR (L)		130J1-27		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY UNIT NO. 1 (cont)
DU-870

IO BP	Function	Connector Pin		Connects To
(O)	DLS (H)	130J1-28	(24)----------S-T-S----	131J1-29
(O)	DLS (L)	-41	(24)----------S-T-S----	131J1-42
			GND┘ └GND	
(I)	ALS (H)	-29	(24)----------S-T-S----	131J1-28
(I)	ALS (L)	-42	(24)----------S-T-S----	131J1-41
			GND┘ └GND	
	RESERVED	-30		
	RESERVED (HDLC OUT +)	-31		
	RESERVED (HDLC OUT -)	-32		
(B)	BUS 3 TERM	-33		
	RESERVED	-34		
(B)	BUS 2 (H)	-35	(24)----------S-T-S----	FIGURE 8-14
(B)	BUS 2 NO TERM (L)	-36	(24)----------S-T-S----	
			GND┘ └GND	
(O)	DU VALID (GND/OPEN)	-37		
(B)	BUS 1 (H)	-38	(24)----------S-T-S----	FIGURE 8-14
(B)	BUS 1 NO TERM (L)	-39	(24)----------S-T-S----	
			GND┘ └GND	
(O)	REMOTE LT SENSOR GND	-40		
		-41	SEE 130J1-28	
		-42	SEE 130J1-29	
	RESERVED	-43		
	RESERVED	-44		
(B)	BUS 4 TERM	-45		
(O)	DU #1 PB5 (STD) (GND/OPEN)	-46	(24)----------	9J1-71
(O)	DU #1 PB4 (IN/HPA) (GND/OPEN)	-47	(24)----------	115J2-12, C115J2-12
	RESERVED	-48		
(I)	BUS 2 TERM	-49		
(O)	DU #1 PB3 (METRIC) (GND/OPEN)	-50	(24)----------	115J2-11, C115J2-11
(O)	DU #1 PB2 (FORMAT) (GND/OPEN)	-51	(24)----------	115J2-10, C115J2-10
(B)	BUS 1 TERM	-52		
(O)	REM LT SENSOR PWR (H)	-53		
(O)	REM LT SENSOR PWR (L)	130J1-54		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY UNIT NO. 1 (cont)
DU-870

IO BP	Function	Connector Pin	Connects To
	RESERVED	130J1-55	
	RESERVED	-56	
	RESERVED	-57	
(B)	BUS 4 (H)	-58	130J1-59
(B)	BUS 4 NO TERM (L)	-59	130J1-58
(O)	DU #1 PB1 (FPA) (GND/OPEN)	-60 (24)	115J2-9, C115J2-9
(B)	WX BUS 2 TERM	-61	
	RESERVED	-62	
(I)	KNOB/PB COMMON	-63 (24)	SIGNAL GND
(B)	WX BUS 1 TERM	-64	
(O)	DU OVERTEMP (GND/OPEN)	-65	
(O)	DU WRAPAROUND A-429 XMTR (H)	-66 (24) S-T-S	190J1A-94, C190J1A-94, E190J1A-94
(O)	(L)	-79 (24) S-T-S (GND)	190J1A-95, C190J1A-95, E190J1A-95
	RESERVED	-67	
	RESERVED	-68	
(I)	WX BUS 3 (H)	-69	130J1-70
(I)	WX BUS 3 NO TERM (L)	-70	130J1-69
	RESERVED	-71	
	RESERVED	-72	
	RESERVED	-73	
(I)	WX BUS 2 (H)	-74	130J1-75
(I)	WX BUS 2 NO TERM (L)	-75	130J1-74
	SPARE	-76	
(I)	WX BUS 1 (H)	-77 (24) S-T-S	FIGURE 8-14
(I)	WX BUS 1 NO TERM (L)	-78 (24) S-T-S (GND)	FIGURE 8-14

130J1-79 SEE 130J1-66

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY UNIT NO. 1 (cont)
DU-870

IO BP	Function	Connector Pin	Connects To
(I)	SIGNAL GROUND	130J1-80 (24)	SIGNAL GND
	RESERVED	-81	
	RESERVED	-82	
(I)	WX BUS 3 TERM	-83	
	RESERVED	-84	
	SPARE	-85	
	SPARE	-86	
(I)	PORT SEL 3 (GND/OPEN)	-87 (24)	135J1-45
(I)	PORT SEL 2 (GND/OPEN)	-88 (24)	135J1-42
(I)	PORT SEL 1 (GND/OPEN)	-89	
(I)	I.D. #3 (GND/OPEN)	-90	
(I)	I.D. #2 (GND/OPEN)	-91	
(I)	I.D. #1 (GND/OPEN)	-92	
	RESERVED	-93	
(I)	CHASSIS GND	-94	
	RESERVED	-95	
	RESERVED	-96	
	RESERVED	-97	
	RESERVED	-98	
(I)	SOFTWARE ENABLE (GND/OPEN)	-99	
(I)	SOFTWARE ENABLE (GND/OPEN)	-100	
(P)	+28 VDC POWER	-101 (20)	FIGURE 8-6
(P)	+28 VDC POWER	-102 (20)	
(P)	+28 VDC POWER	-103 (20)	
(P)	+28 VDC POWER RETURN	-104 (20)	DC POWER GND
(P)	+28 VDC POWER RETURN	-105 (20)	
(P)	+28 VDC POWER RETURN	130J1-106 (20)	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY UNIT NO. 2
DU-870

IO BP	Function		Connector Pin		Connects To
(I)	BRIGHTNESS POT	(H)	131J1-1	(24)----------S-T-S----	135J1-4
(I)		(L)	-13	(24)----------S-T-S----	135J1-6
(I)		(W)	-14	(24)----------S-T-S----	135J1-5
				GND┘ └NC	
(I)	WX DIMMING	(H)	-2		
(I)		(L)	-3		
(I)		(W)	-15		
	RESERVED		-4		
	RESERVED		-5		
	RESERVED		-6		
	RESERVED		-7		
	SPARE		-8		
	RESERVED		-9		
	RESERVED		-10		
	RESERVED		-11		
	RESERVED		-12		
			-13	SEE 131J1-1	
			-14	SEE 131J1-1	
			-15	SEE 131J1-2	
	RESERVED		-16		
	RESERVED		-17		
	RESERVED		-18		
(B)	BUS 3	(H)	-19	----------S-T-S----	FIGURE 8-14
(B)	BUS 3 NO TERM	(L)	-20	----------S-T-S----	
				GND┘ └GND	
(O)	BEZEL KNOB (BO)		-21	(24)----------	115J1-29, C115J1-29
(I)	DU PWR DN (GND/OPEN)		-22		
(P)	0-5 VDC EDGE	(H)	-23	(22)----------	FIGURE 8-7
(P)	LIGHTING	(L)	-24	(22)----------	LIGHTING GND
(O)	BEZEL KNOB (B1)		-25	(24)----------	115J1-30, C115J1-30
(I)	REMOTE LT SENSOR (H)		-26		
(I)	REMOTE LT SENSOR (L)		131J1-27		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY UNIT NO. 2 (cont)
DU-870

IO BP	Function	Connector Pin		Connects To
(O)	DLS (H)	131J1-28	(24)----------S-T-S----	130J1-29
(O)	DLS (L)	-41	(24)----------S-T-S----	130J1-42
			GND┘ └GND	
(I)	ALS (H)	-29	(24)----------S-T-S----	130J1-28
(I)	ALS (L)	-42	(24)----------S-T-S----	130J1-41
			GND┘ └GND	
	RESERVED	-30		
	RESERVED (HDLC OUT +)	-31		
	RESERVED (HDLC OUT -)	-32		
(B)	BUS 3 TERM	-33		
	RESERVED	-34		
(B)	BUS 2 (H)	-35	(24)----------S-T-S----	FIGURE 8-14
(B)	BUS 2 NO TERM (L)	-36	(24)----------S-T-S----	
			GND┘ └GND	
(O)	DU VALID (GND/OPEN)	-37		
(B)	BUS 1 (H)	-38	(24)----------S-T-S----	FIGURE 8-14
(B)	BUS 1 NO TERM (L)	-39	(24)----------S-T-S----	
			GND┘ └GND	
(O)	REMOTE LT SENSOR GND	-40		
		-41	SEE 131J1-28	
		-42	SEE 131J1-29	
	RESERVED	-43		
	RESERVED	-44		
(B)	BUS 4 TERM	-45		
(O)	DU #2 PB5 (RIGHT PB) (GND/OPEN)	-46	(24)----------	115J1-32, C115J1-32
(O)	DU #2 PB4 (GND/OPEN)	-47	(24)----------	115J1-31, C115J1-31
	RESERVED	-48		
(I)	BUS 2 TERM	-49		
(O)	DU #2 PB3 (GND/OPEN)	-50	(24)----------	115J1-28, C115J1-28
(O)	DU #2 PB2 (GND/OPEN)	-51	(24)----------	115J1-27, C115J1-27
(B)	BUS 1 TERM	-52		
(O)	REM LT SENSOR PWR (H)	-53		
(O)	REM LT SENSOR PWR (L)	131J1-54		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY UNIT NO. 2 (cont)
DU-870

IO BP	Function	Connector Pin	Connects To
	RESERVED	131J1-55	
	RESERVED	-56	
	RESERVED	-57	
(B)	BUS 4 (H)	-58 ----------S-T-S----	FIGURE 8-14
(B)	BUS 4 NO TERM (L)	-59 ----------S-T-S----	
		GND┘ └GND	
(O)	DU #2 PB1	-60 (24)----------	115J1-26,
	(GND/OPEN)		C115J1-26
(B)	WX BUS 2 TERM	-61	
(O)	DU #2 PBO (LEFT PB)	-62 (24)----------	115J1-25,
	(GND/OPEN)		C115J1-25
(I)	KNOB/PB COMMON	-63 (24)----------	SIGNAL GND
(B)	WX BUS 1 TERM	-64	
(O)	DU OVERTEMP (GND/OPEN)	-65	
(O)	DU WRAPAROUND A-429 XMTR (H)	-66 (24)----------S-T-S----	190J1A-42, C190J1A-42, E190J1A-42
(O)	(L)	-79 (24)----------S-T-S----	190J1A-43, C190J1A-43, E190J1A-43
		GND┘ └GND	
	RESERVED	-67	
	RESERVED	-68	
(I)	WX BUS 3 (H)	-69 ----------	131J1-70
(I)	WX BUS 3 NO TERM (L)	-70 ----------	131J1-69
	RESERVED	-71	
	RESERVED	-72	
	RESERVED	-73	
(I)	WX BUS 2 (H)	-74 ----------	131J1-75
(I)	WX BUS 2 NO TERM (L)	-75 ----------	131J1-74
	SPARE	-76	
(I)	WX BUS 1 (H)	-77 (24)----------S-T-S----	FIGURE 8-14
(I)	WX BUS 1 NO TERM (L)	-78 (24)----------S-T-S----	
		GND┘ └GND	

131J1-79 SEE 131J1-66

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY UNIT NO. 2 (cont)
DU-870

IO BP	Function	Connector Pin	Connects To
(I)	SIGNAL GROUND	131J1-80 (24)	SIGNAL GND
	RESERVED	-81	
	RESERVED	-82	
(I)	WX BUS 3 TERM	-83	
	RESERVED	-84	
	SPARE	-85	
	SPARE	-86	
(I)	PORT SEL 3 (GND/OPEN)	-87 (24)	135J1-48
(I)	PORT SEL 2 (GND/OPEN)	-88 (24)	135J1-47
(I)	PORT SEL 1 (GND/OPEN)	-89	
(I)	I.D. #3 (GND/OPEN)	-90 (24)	SIGNAL GND
(I)	I.D. #2 (GND/OPEN)	-91	
(I)	I.D. #1 (GND/OPEN)	-92	
	RESERVED	-93	
(I)	CHASSIS GND	-94	
	RESERVED	-95	
	RESERVED	-96	
	RESERVED	-97	
	RESERVED	-98	
(I)	SOFTWARE ENABLE (GND/OPEN)	-99	
(I)	SOFTWARE ENABLE (GND/OPEN)	-100	
(P)	+28 VDC POWER	-101 (20)	FIGURE 8-6
(P)	+28 VDC POWER	-102 (20)	
(P)	+28 VDC POWER	-103 (20)	
(P)	+28 VDC POWER RETURN	-104 (20)	DC POWER GND
(P)	+28 VDC POWER RETURN	-105 (20)	
(P)	+28 VDC POWER RETURN	131J1-106 (20)	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY UNIT NO. 3
DU-870

IO BP	Function		Connector Pin		Connects To
(I)	BRIGHTNESS POT	(H)	132J1-1	(24)----------S-T-S----	E135J1-1
(I)		(L)	-13	(24)----------S-T-S----	E135J1-3
(I)		(W)	-14	(24)----------S-T-S----	E135J1-2
				GND┘ └NC	
(I)	WX DIMMING	(H)	-2		
(I)		(L)	-3		
(I)		(W)	-15		
	RESERVED		-4		
	RESERVED		-5		
	RESERVED		-6		
	RESERVED		-7		
	SPARE		-8		
	RESERVED		-9		
	RESERVED		-10		
	RESERVED		-11		
	RESERVED		-12		
			-13	SEE 132J1-1	
			-14	SEE 132J1-1	
			-15	SEE 132J1-2	
	RESERVED		-16		
	RESERVED		-17		
	RESERVED		-18		
(B)	BUS 3	(H)	-19	----------S-T-S----	FIGURE 8-14
(B)	BUS 3 NO TERM	(L)	-20	----------S-T-S----	
				GND┘ └GND	
(O)	BEZEL KNOB (B0)		-21	(24)----------	115J1-37, C115J1-37
(I)	DU PWR DN (GND/OPEN)		-22	(24)----------	E135J1-4, E135J1-8
(P)	0-5 VDC EDGE	(H)	-23	(22)----------	FIGURE 8-7
(P)	LIGHTING	(L)	-24	(22)----------	LIGHTING GND
(O)	BEZEL KNOB (B1)		-25	(24)----------	115J1-38, C115J1-38
(I)	REMOTE LT SENSOR (H)		-26		
(I)	REMOTE LT SENSOR (L)		132J1-27		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY UNIT NO. 3 (cont)
DU-870

IO BP	Function	Connector Pin		Connects To
(O)	DLS (H)	132J1-28		
(O)	DLS (L)	-41		
(I)	ALS (H)	-29		
(I)	ALS (L)	-42		
	RESERVED	-30		
	RESERVED (HDLC OUT +)	-31		
	RESERVED (HDLC OUT -)	-32		
(B)	BUS 3 TERM	-33		
	RESERVED	-34		
(B)	BUS 2 (H)	-35	(24)----------S-T-S----	FIGURE 8-14
(B)	BUS 2 NO TERM (L)	-36	(24)----------S-T-S---- GND┘ └GND	FIGURE 8-14
(O)	DU VALID (GND/OPEN)	-37		
(B)	BUS 1 (H)	-38	(24)----------S-T-S----	FIGURE 8-14
(B)	BUS 1 NO TERM (L)	-39	(24)----------S-T-S---- GND┘ └GND	FIGURE 8-14
(O)	REMOTE LT SENSOR GND	-40		
		-41	SEE 132J1-28	
		-42	SEE 132J1-29	
	RESERVED	-43		
	RESERVED	-44		
(B)	BUS 4 TERM	-45		
(O)	DU #3 PB5 (RIGHT PB) (GND/OPEN)	-46	(24)----------	115J1-41, C115J1-41
(O)	DU #3 PB4 (GND/OPEN)	-47	(24)----------	115J1-40, C115J1-40
	RESERVED	-48		
(I)	BUS 2 TERM	-49		
(O)	DU #3 PB3 (GND/OPEN)	-50	(24)----------	115J1-39, C115J1-39
(O)	DU #3 PB2 (GND/OPEN)	-51	(24)----------	115J1-36, C115J1-36
(B)	BUS 1 TERM	-52		
(O)	REM LT SENSOR PWR (H)	-53		
(O)	REM LT SENSOR PWR (L)	132J1-54		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY UNIT NO. 3 (cont)
DU-870

IO BP	Function	Connector Pin	Connects To
	RESERVED	132J1-55	
	RESERVED	-56	
	RESERVED	-57	
(B)	BUS 4 (H)	-58 ----------S-T-S----	FIGURE 8-14
(B)	BUS 4 NO TERM (L)	-59 ----------S-T-S---- (GND└┘ └─GND)	FIGURE 8-14
(O)	DU #3 PB1 (GND/OPEN)	-60 (24)----------	115J1-35, C115J1-35
(B)	WX BUS 2 TERM	-61	
(O)	DU #3 PBO (LEFT PB) (GND/OPEN)	-62 (24)----------	115J1-34, C115J1-34
(I)	KNOB/PB COMMON	-63 (24)----------	SIGNAL GND
(B)	WX BUS 1 TERM	-64	
(O)	DU OVERTEMP (GND/OPEN)	-65	
(O)	DU WRAPAROUND A-429 XMTR (H)	-66 (24)----------S-T-S----	190J1A-29, C190J1A-29, E190J1A-29
(O)	(L)	-79 (24)----------S-T-S---- (GND└┘ └─GND)	190J1A-28, C190J1A-28, E190J1A-28
	RESERVED	-67	
	RESERVED	-68	
(I)	WX BUS 3 (H)	-69 ----------	132J1-70
(I)	WX BUS 3 NO TERM (L)	-70 ----------	132J1-69
	RESERVED	-71	
	RESERVED	-72	
	RESERVED	-73	
(I)	WX BUS 2 (H)	-74 ----------	132J1-75
(I)	WX BUS 2 NO TERM (L)	-75 ----------	132J1-74
	SPARE	-76	
(I)	WX BUS 1 (H)	-77 ----------	132J1-78
(I)	WX BUS 1 NO TERM (L)	-78 ----------	132J1-77

132J1-79 SEE 132J1-66

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY UNIT NO. 3 (cont)
DU-870

IO BP	Function	Connector Pin	Connects To
(I)	SIGNAL GROUND	132J1-80 (24)	SIGNAL GND
	RESERVED	-81	
	RESERVED	-82	
(I)	WX BUS 3 TERM	-83	
	RESERVED	-84	
	SPARE	-85	
	SPARE	-86	
(I)	PORT SEL 3 (GND/OPEN)	-87 (24)	135J1-43, E135J1-18
(I)	PORT SEL 2 (GND/OPEN)	-88 (24)	E135J1-15
(I)	PORT SEL 1 (GND/OPEN)	-89	
(I)	I.D. #3 (GND/OPEN)	-90	
(I)	I.D. #2 (GND/OPEN)	-91 (24)	SIGNAL GND
(I)	I.D. #1 (GND/OPEN)	-92	
	RESERVED	-93	
(I)	CHASSIS GND	-94	
	RESERVED	-95	
	RESERVED	-96	
	RESERVED	-97	
	RESERVED	-98	
(I)	SOFTWARE ENABLE (GND/OPEN)	-99	
(I)	SOFTWARE ENABLE (GND/OPEN)	-100	
(P)	+28 VDC POWER	-101 (20)	FIGURE 8-6
(P)	+28 VDC POWER	-102 (20)	
(P)	+28 VDC POWER	-103 (20)	
(P)	+28 VDC POWER RETURN	-104 (20)	DC POWER GND
(P)	+28 VDC POWER RETURN	-105 (20)	
(P)	+28 VDC POWER RETURN	132J1-106 (20)	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

REVERSIONARY CONTROLLER NO. 1
RC-820

IO BP	Function	Connector Pin			Connects To
(O)	PILOT PFD (H)	135J1-1	(24)	S-T-S	130J1-1
(O)	BRIGHTNESS POT (W)	-2	(24)	S-T-S	130J1-14
(O)	(L)	-3	(24)	S-T-S (NC, GND)	130J1-13
(O)	PILOT MFD (H)	-4	(24)	S-T-S	131J1-1
(O)	BRIGHTNESS POT (W)	-5	(24)	S-T-S	131J1-14
(O)	(L)	-6	(24)	S-T-S (NC, GND)	131J1-13
(O)	PILOT PFD ON (GND/OPEN)	-7			
(O)	PILOT PFD OFF (GND/OPEN)	-8	(24)		130J1-22
(O)	PILOT PFD OFF (GND/OPEN)	-9	(24)		C190J1C-31
(O)	PILOT PFD OFF (GND/OPEN)	-10	(24)		E190J1C-31
(O)	PILOT PFD OFF (GND/OPEN)	-11	(24)		190J1C-31
(O)	AUTO EICAS REV 3 (GND/OPEN)	-12	(24)		C135J1-17, E135J1-13
(O)	AUTO EICAS REV 1 (GND/OPEN)	-13	(24)		C135J1-15, E135J1-16
(O)	AUTO EICAS REV 2 (GND/OPEN)	-14	(24)		C135J1-16, E135J1-23
(I)	EICAS SG SEL 2 (GND/OPEN)	-15	(24)		C135J1-13, E135J1-17
(I)	EICAS SG SEL 1 (GND/OPEN)	-16	(24)		C135J1-14, E135J1-14
(I)	EICAS SG SEL 3 (GND/OPEN)	-17	(24)		C135J1-12, E135J1-12
(O)	#1 RA REV PB (GND/OPEN)	-18	(24)		115J2-5, C115J2-5
	SPARE	-19			
	SPARE	-20			
	SPARE	-21			
	SPARE	-22			
	SPARE	-23			
(O)	SG1 NORM (GND/OPEN)	-24	(24)		E135J1-48
	SPARE	-25			
	SPARE	-26			
	SPARE	-27			
	SPARE	-28			
	SPARE	-29			
	SPARE	-30			
	SPARE	-31			
(O)	SG1 REV (GND/OPEN)	135J1-32	(24)		E135J1-47

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

REVERSIONARY CONTROLLER NO. 1 (cont)
RC-820

IO BP	Function	Connector Pin		Connects To
	SPARE	135J1-33		
	SPARE	-34		
	SPARE	-35		
	SPARE	-36		
	SPARE	-37		
	SPARE	-38		
(O)	SG1 REV (GND/OPEN)	-39	(24)----------	C190J1D-45
(O)	SG1 REV (GND/OPEN)	-40	(24)----------	E190J1D-45
(O)	SG1 REV (GND/OPEN)	-41	(24)----------	190J1D-45
(O)	DU #1 PORT SEL 2 (GND/OPEN)	-42	(24)----------	130J1-88
(O)	DU #3 PORT SEL 3 (GND/OPEN)	-43	(24)----------	132J1-87, E135J1-18
(I)	PILOT BACKED UP BY IAC 3 (GND/OPEN)	-44	(24)----------	E135J1-41
(O)	DU #1 PORT SEL 3 (GND/OPEN)	-45	(24)----------	130J1-87
(I)	PILOT BACKED UP BY IAC 3 (GND/OPEN)	-46	(24)----------	E135J1-46
(O)	DU #2 PORT SEL 2 (GND/OPEN)	-47	(24)----------	131J1-88
(O)	DU #2 PORT SEL 3 (GND/OPEN)	-48	(24)----------	131J1-87
(O)	SG 1 TEST PB (GND/OPEN)	-49	(24)----------	190J1B-51, 115J2-15, C115J2-15
(I)	SIGNAL GROUND	-50	(24)----------	SIGNAL GND
(O)	#1 ADC REV PB (GND/OPEN)	-51	(24)----------	115J1-55, C115J1-55
(O)	#1 IRS REV PB (GND/OPEN)	-52	(24)----------	115J1-54, C115J1-54
(P)	5 VDC LIGHTING	-53	(22)----------	FIGURE 8-7
(P)	DC LIGHTING COMMON	-54	(22)----------	LIGHTING GND
(P)	28 VDC LIGHTING	135J1-55		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

REVERSIONARY CONTROLLER NO. 3
RC-841

IO BP	Function	Connector Pin		Connects To
(O)	EICAS (H)	E135J1-1	(24)----------S-T-S----	132J1-1
(O)	BRIGHTNESS POT (W)	-2	(24)----------S-T-S----	132J1-14
(O)	(L)	-3	(24)----------S-T-S----	132J1-13
			NC┘ └GND	
(O)	DU #3 OFF (GND/OPEN)	-4	(24)----------	132J1-22, E135J1-8
(O)	EICAS LEFT SEL (GND/OPEN)	-5	(24)----------	C190J1C-30
(O)	EICAS LEFT SEL (GND/OPEN)	-6	(24)----------	E190J1C-30
(O)	EICAS LEFT SEL (GND/OPEN)	-7	(24)----------	190J1C-30
(O)	DU #3 OFF (GND/OPEN)	-8	(24)----------	E135J1-4, 132J1-22
(O)	EICAS RIGHT SEL (GND/OPEN)	-9	(24)----------	C190J1B-49
(O)	EICAS RIGHT SEL (GND/OPEN)	-10	(24)----------	E190J1B-49
(O)	EICAS RIGHT SEL (GND/OPEN)	-11	(24)----------	190J1B-49
(O)	EICAS SEL LT SG 3 (GND/OPEN)	-12	(24)----------	135J1-17, C135J1-12
(O)	EICAS SEL RT SG 3 (GND/OPEN)	-13	(24)----------	135J1-12, C135J1-17
(O)	EICAS LT SG SEL 1 (GND/OPEN)	-14	(24)----------	135J1-16, C135J1-14
(O)	EICAS PORT SEL 2 (GND/OPEN)	-15	(24)----------	132J1-88
(O)	EICAS RT SG SEL 1 (GND/OPEN)	-16	(24)----------	135J1-13, C135J1-15
(O)	EICAS LT SG SEL 2 (GND/OPEN)	-17	(24)----------	135J1-15, C135J1-13
(O)	EICAS PORT SEL 3 (GND/OPEN)	-18	(24)----------	135J1-43, 132J1-87
	SPARE	-19		
	SPARE	-20		
	SPARE	-21		
	SPARE	-22		
(O)	EICAS SEL RT SG 2 (GND/OPEN)	-23	(24)----------	135J1-14, C135J1-16
	SPARE	-24		
	SPARE	-25		
	SPARE	-26		
	SPARE	-27		
	SPARE	-28		
	SPARE	-29		
	SPARE	-30		
	SPARE	E135J1-31		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

REVERSIONARY CONTROLLER NO. 3 (cont)
RC-841

IO BP	Function	Connector Pin		Connects To
	SPARE	E135J1-32		
	SPARE	-33		
	SPARE	-34		
	SPARE	-35		
	SPARE	-36		
	SPARE	-37		
	SPARE	-38		
	SPARE	-39		
(O)	SG 3 NORM (GND/OPEN)	-40	(24)	C135J1-44
(O)	SG 3 NORM (GND/OPEN)	-41	(24)	135J1-44
(O)	SG 3 REV (GND/OPEN)	-42	(24)	C190J1D-53
(O)	SG 3 REV (GND/OPEN)	-43	(24)	E190J1D-53
(O)	SG 3 REV (GND/OPEN)	-44	(24)	190J1D-53
(O)	SG 3 REV (GND/OPEN)	-45	(24)	C135J1-46
(O)	SG 3 REV (GND/OPEN)	-46	(24)	135J1-46
(I)	SG 1 REV (GND/OPEN)	-47	(24)	135J1-32
(I)	SG 1 NORM (GND/OPEN)	-48	(24)	135J1-24
(O)	SG 3 TEST PB (GND/OPEN)	-49	(24)	E190J1B-51, 115J2-17, C115J2-17
(I)	SIGNAL GROUND	-50	(24)	SIGNAL GND
(O)	DAU #1 REV PB (GND/OPEN)	-51	(24)	115J1-58, C115J1-58
(O)	DAU #2 REV PB (GND/OPEN)	-52	(24)	115J1-60, C115J1-60
(P)	5 VDC LIGHTING	-53	(22)	FIGURE 8-7
(P)	LIGHTING COMMON	-54	(22)	LIGHTING GND
(P)	28 VDC LIGHTING	E135J1-55		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DATA ACQUISITION UNIT (DAU) NO. 1
DA-800

IO BP	Function	Connector Pin	Connects To
	RESERVED	136J1A-1	
	RESERVED	-2	
	RESERVED	-3	
	RESERVED	-4	
	RESERVED	-5	
	RESERVED	-6	
	RESERVED	-7	
	RESERVED	-8	
	RESERVED	-9	
	RESERVED	-10	
	RESERVED	-11	
	RESERVED	-12	
	RESERVED	-13	
	RESERVED	-14	
	RESERVED	-15	
	RESERVED	-16	
	RESERVED	-17	
	RESERVED	-18	
	RESERVED	-19	
	RESERVED	-20	
	RESERVED	-21	
	RESERVED	-22	
	RESERVED	-23	
	RESERVED	-24	
	RESERVED	-25	
	RESERVED	-26	
	RESERVED	-27	
	RESERVED	-28	
	RESERVED	-29	
	RESERVED	-30	
	RESERVED	-31	
	RESERVED	-32	
	RESERVED	-33	
	RESERVED	-34	
	RESERVED	-35	
	RESERVED	136J1A-36	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DATA ACQUISITION UNIT (DAU) NO. 1 (cont)
DA-800

IO BP	Function	Connector Pin		Connects To
	RESERVED	136J1A-37		
	RESERVED	-38		
	RESERVED	-39		
	RESERVED	-40		
	RESERVED	-41		
	RESERVED	-42		
	RESERVED	-43		
	RESERVED	-44		
	RESERVED	-45		
	RESERVED	-46		
	RESERVED	-47		
	RESERVED	-48		
		-49		
		-50		
		-51		
		-52		
		-53		
		-54		
		-55		
		-56		
		-57		
		-58		
		-59		
		-60		
		-61		
		-62		
		-63		
		-64		
		-65		
		-66		
(I)	ID #1 CH A (GND/OPEN)	-67		
(I)	ID #2 CH A (GND/OPEN)	-68		
(I)	ID #3 CH A (GND/OPEN)	-69	(24)----------	SIGNAL GND
		-70		
		-71		
		136J1A-72		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DATA ACQUISITION UNIT (DAU) NO. 1 (cont)
DA-800

IO BP	Function		Connector Pin		Connects To
			136J1A-73		
			-74		
			-75		
			-76		
(B)	ASCB NO. 1 PRI	(H)	-77	----------S-T-S----	FIGURE 8-1
(B)	(DAU CHANNEL B)	(L)	-79	----------S-T-S----	
				GND└┘ └─GND	
			-78		
			-79	SEE 136J1A-77	
			-80		
			-81		
			-82		
			-83		
			-84		
			-85		
			-86		
			-87		
			-88		
			-89		
			-90		
			-91		
			-92		
			-93		
(B)	ASCB NO. 1 PRI	(H)	-94	----------S-T-S----	FIGURE 8-1
(B)	(DAU CHANNEL A)	(L)	-96	----------S-T-S----	
				GND└┘ └─GND	
			-95		
			-96	SEE 136J1A-94	
			-97		
			-98		
(I)	SIGNAL GROUND #1 CH A		-99	(24)----------	SIGNAL GND
(I)	SIGNAL GROUND #2 CH A		-100	(24)----------	SIGNAL GND
(I)	CHASSIS GROUND		-101		
			-102		
(P)	+28 VDC POWER CH A		-103	(22)----------	FIGURE 8-6
(P)	+28 VDC POWER CH A		-104	(22)----------	
(P)	DC POWER GND CH A		-105	(22)----------	DC POWER GND
(P)	DC POWER GND CH A		136J1A-106	(22)----------	DC POWER GND

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DATA ACQUISITION UNIT (DAU) NO. 1 (cont)
DA-800

IO BP	Function	Connector Pin		Connects To
(I)	L ITT (AL)	136J1B-1	(24) S-T-S	XX
(I)	L ITT (CH)	-2	(24) S-T-S	XX
			GND GND	
		-3		
(I)	L WING FUEL QTY (H)	-4	(24) S-T-S	XX
(I)	L WING FUEL QTY (L)	-5	(24) S-T-S	XX
			GND GND	
		-6		
(I)	L N1 SPEED (H)	-7	(24) S-T-S	XX
(I)	L N1 SPEED (L)	-8	(24) S-T-S	XX
			GND GND	
		-9		
(I)	L FUEL FLOW - DRUM	-10	(24) S-T-S	XX
(I)	L FUEL FLOW - COMMON	-11	(24) S-T-S	XX
(I)	L FUEL FLOW - IMPELLER	-12	(24) S-T-S	XX
			GND GND	
(O)	L FUEL HTR TEMP EXC (H)	-13	(24) S-T-S	XX
(O)	L FUEL HTR TEMP EXC (L)	-14	(24) S-T-S	XX
			GND GND	
(I)	L FUEL HEATER TEMP (H)	-15	(24) S-T-S	XX
(I)	L FUEL HEATER TEMP (L)	-16	(24) S-T-S	XX
			GND GND	
		-17		
(I)	L OIL PRESSURE (H)	-18	(24) S-T-S	XX
(I)	L OIL PRESSURE (L)	-19	(24) S-T-S	XX
			GND GND	
		-20		
(O)	L OIL TEMP EXC (H)	-21	(24) S-T-S	XX
(O)	L OIL TEMP EXC (L)	-22	(24) S-T-S	XX
			GND GND	
(I)	L OIL TEMP (H)	-23	(24) S-T-S	XX
(I)	L OIL TEMP (L)	-24	(24) S-T-S	XX
			GND GND	
		-25		
(I)	STABILIZER POSITION (H)	-26	(24) S-T-S	XX
(I)	STABILIZER POSITION (W)	-27	(24) S-T-S	XX
(I)	STABILIZER POSITION (L)	-28	(24) S-T-S	XX
			GND GND	
		-29		
(I)	RUDDER POSITION (H)	-30	(24) S-T-S	XX
(I)	RUDDER POSITION (W)	-31	(24) S-T-S	XX
(I)	RUDDER POSITION (L)	-32	(24) S-T-S	XX
			GND GND	
		136J1B-33		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DATA ACQUISITION UNIT (DAU) NO. 1 (cont)
DA-800

IO BP	Function	Connector Pin	Connects To
(I)	FLAPS POSITION (H)	136J1B-34 (24)	XX
(I)	FLAPS POSITION (W)	-35 (24)	
(I)	FLAPS POSITION (L)	-36 (24)	
		GND, GND	
		-37	
(I)	L N2 SPEED (H)	-38 (24)	XX
(I)	L N2 SPEED (L)	-39 (24)	
		GND, GND	
(O)	DEEC OUTPUT (H)	-40 (24)	FIGURE 8-2
(O)	(ARINC 429 - CH A) (L)	-41 (24)	
		GND, GND	
(I)	C DEEC INPUT (H)	-42 (24)	FIGURE 8-2
(I)	(ARINC 429) (L)	-43 (24)	
		GND, GND	
(I)	L VIBRATION INPUT (H)	-44 (24)	FIGURE 8-2
(I)	(ARINC 429) (L)	-45 (24)	
		GND, GND	
(I)	R VIBRATION INPUT (H)	-46 (24)	FIGURE 8-2
(I)	(ARINC 429) (L)	-47 (24)	
		GND, GND	
(I)	GPWS INPUT (H)	-48 (24)	FIGURE 8-2
(I)	(ARINC 429) (L)	-49 (24)	
		GND, GND	
(O)	GPWS OUTPUT (H)	-50 (24)	FIGURE 8-2
(O)	(ARINC 429 - CH A) (L)	-51 (24)	
		GND, GND	
		-52	
(O)	FLT DATA REC OUT (H)	-53 (24)	XX
(O)	(ARINC 573/717) (L)	-54 (24)	
		GND, GND	
		-55	
	RESERVED FOR TEST	-56	
	RESERVED FOR TEST	-57	
	RESERVED FOR TEST	-58	
	RESERVED FOR TEST	-59	
	RESERVED FOR TEST	-60	
	RESERVED FOR TEST	-61	
	RESERVED FOR TEST	-62	
	RESERVED FOR TEST	-63	
	RESERVED FOR TEST	-64	
	RESERVED FOR TEST	-65	
	RESERVED FOR TEST	-66	
	RESERVED FOR TEST	-67	
	RESERVED FOR TEST	-68	
	RESERVED FOR TEST	-69	
	RESERVED FOR TEST	136J1B-70	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DATA ACQUISITION UNIT (DAU) NO. 1 (cont)
DA-800

IO BP	Function		Connector Pin		Connects To
			136J1B-71		
			-72		
			-73		
			-74		
			-75		
			-76		
			-77		
(I)	#1 RADIO ALTIMETER	(H)	-78	(24) ----------S-T-S----	FIGURE 8-13
(I)	#1 RADIO ALTIMETER	(L)	-79	(24) ----------S-T-S----	
				GND┘ └GND	
			-80		
			-81		
			-82		
			-83		
			-84		
			-85		
(I)	SPARE DC ANALOG	(H)	-86		
(I)	SPARE DC ANALOG	(L)	-87		
			-88		
			-89		
			-90		
			-91		
			-92		
			-93		
(B)	ASCB NO. 1 BU	(H)	-94	----------S-T-S----	FIGURE 8-1
(B)	(DAU CHANNEL A)	(L)	-96	----------S-T-S----	
				GND┘ └GND	
			-95		
			-96	SEE 136J1B-94	
			-97		
(O)	RESERVED		-98		
(O)	RESERVED		-99		
(I)	RESERVED		-100		
(I)	RESERVED		-101		
			-102		
			-103		
(B)	RS-232 DATA CH A XMTR		-104	(24)----------S-T-S----	FIGURE 8-3
(B)	RS-232 DATA CH A RCVR		-105	(24)----------S-T-S----	
(B)	RS-232 CH A COMMON		136J1B-106	(24)----------S-T-S----	
				GND┘ └GND	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DATA ACQUISITION UNIT (DAU) NO. 1 (cont)
DA-800

IO BP	Function	Connector Pin		Connects To
(I)	LT DEEC MANUAL (G/O)	136J2A-1	(24)----------	XX
(I)	RT DEEC MANUAL (G/O)	-2	(24)----------	XX
(I)	LT FUEL FILTER BYPASS (G/O)	-3	(24)----------	XX
(I)	RT FUEL FILTER BYPASS (G/O)	-4	(24)----------	XX
(I)	CTR TANK FUEL LOW (G/O)	-5	(24)----------	XX
(I)	CTR TANK LOW FUEL (G/O)	-6	(24)----------	XX
(I)	LT ENG ANTI-ICE ON (G/O)	-7	(24)----------	XX
(I)	RT ENG ANTI-ICE ON (G/O)	-8	(24)----------	XX
(I)	WING ANTI-ICE ON (G/O)	-9	(24)----------	XX
(I)	LT BLEED OVERHEAT (G/O)	-10	(24)----------	XX
(I)	RT BLEED OVERHEAT (G/O)	-11	(24)----------	XX
(I)	PASS A/C OVERHEAT (G/O)	-12	(24)----------	XX
(I)	LT PITOT HEAT OFF (G/O)	-13	(24)----------	XX
(I)	CTR PITOT HEAT OFF (G/O)	-14	(24)----------	XX
(I)	LT AOA HEAT OFF (G/O)	-15	(24)----------	XX
(I)	WEIGHT ON LT MN GEAR (G/O)	-16	(24)----------	FIGURE 8-5
(I)	WEIGHT ON NOSE GEAR (G/O)	-17	(24)----------	FIGURE 8-5
(I)	WEIGHT ON RT MN GEAR (G/O)	-18	(24)----------	FIGURE 8-5
(I)	LANDING GEAR DOWN (G/O)	-19	(24)----------	XX
(I)	CABIN DOOR OPEN (G/O)	-20	(24)----------	XX
(I)	BAGGAGE DOOR OPEN (G/O)	-21	(24)----------	XX
(I)	AFT DOOR OPEN (G/O)	-22	(24)----------	XX
(I)	MASTER WARNING ANN (G/O)	-23	(24)----------	XX
(I)	PILOT PUSH TO TALK (G/O)	-24	(24)----------	XX
(I)	FDR EVENT MARKER (G/O)	-25	(24)----------	FIGURE 8-16
(I)	NO TAKEOFF WARNING (G/O)	-26	(24)----------	XX
(I)	INBRD SLATS RETRACTED (G/O)	-27	(24)----------	XX
(I)	LT HYD PRESSURE LOW (G/O)	-28	(24)----------	XX
(I)	RT HYD PRESSURE LOW (G/O)	-29	(24)----------	XX
(I)	HF 1 SELCAL ACTIVE (G/O)	-30	(24)----------	XX
(I)	SELCAL RESET (G/O)	-31	(24)----------	XX
(I)	SPARE (G/O)	-32		
(I)	SPARE (G/O)	-33		
(I)	SPARE (G/O)	-34		
(I)	SPARE (G/O)	-35		
(I)	SPARE (G/O)	136J2A-36		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DATA ACQUISITION UNIT (DAU) NO. 1 (cont)
DA-800

IO BP	Function	Connector Pin		Connects To
(I)	LT ENG IGN (28/O)	136J2A-37		
(I)	RT ENG IGN (28/O)	-38		
(I)	SPARE (28/O)	-39	(24)----------	XX
(I)	WING ANTI-ICE CMD (28/O)	-40	(24)----------	XX
(I)	FLAPS 7 DEG SEL (28/O)	-41	(24)----------	XX
(I)	FLAPS 20 DEG SEL (28/O)	-42	(24)----------	XX
(I)	FLAPS 40 DEG SEL (28/O)	-43	(24)----------	XX
(I)	LT ENG START (28/O)	-44	(24)----------	XX
(I)	END ITEM TEST (28/O)	-45		
(I)	RT ENG START (28/O)	-46	(24)----------	XX
(I)	LT BUS VOLTAGE NORM (28/O)	-47	(24)----------	XX
(I)	RAD ALT 1 VALID (28/O)	-48	(24)----------	FIGURE 8-13
		-49		
		-50		
		-51		
		-52		
		-53		
		-54		
		-55		
		-56		
		-57		
		-58		
		-59		
		-60		
		-61		
		-62		
		-63		
		-64		
		-65		
		-66		
(I)	ID #1-CHB (GND/OPEN)	-67		
(I)	ID #2-CHB (GND/OPEN)	-68		
(I)	ID #3-CHB (GND/OPEN)	-69	(24)----------	SIGNAL GND
		-70		
		-71		
		136J2A-72		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DATA ACQUISITION UNIT (DAU) NO. 1 (cont)
DA-800

IO BP	Function		Connector Pin		Connects To
			136J2A-73		
			-74		
			-75		
			-76		
(B)	ASCB NO. 2 PRI	(H)	-77	S-T-S	FIGURE 8-1
(B)	(DAU CHANNEL B)	(L)	-79	S-T-S (GND, GND)	FIGURE 8-1
			-78		
			-79	SEE 136J2A-77	
			-80		
			-81		
			-82		
			-83		
			-84		
			-85		
			-86		
			-87		
			-88		
			-89		
			-90		
			-91		
			-92		
			-93		
(B)	ASCB NO. 2 PRI	(H)	-94	S-T-S	FIGURE 8-1
(B)	(DAU CHANNEL A)	(L)	-96	S-T-S (GND, GND)	FIGURE 8-1
			-95		
			-96	SEE 136J2A-94	
			-97		
			-98		
(I)	SIGNAL GROUND #1 CH B		-99	(24)	SIGNAL GND
(I)	SIGNAL GROUND #2 CH B		-100	(24)	SIGNAL GND
(I)	CHASSIS GROUND		-101		
			-102		
(P)	+28 VDC POWER CH B		-103	(22)	FIGURE 8-6
(P)	+28 VDC POWER CH B		-104	(22)	FIGURE 8-6
(P)	DC POWER GND CH B		-105	(22)	DC POWER GND
(P)	DC POWER GND CH B		136J2A-106	(22)	DC POWER GND

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DATA ACQUISITION UNIT (DAU) NO. 1 (cont)
DA-800

IO BP	Function	Connector Pin		Connects To
(I)	R ITT (AL)	136J2B-1	(24) S-T-S	XX
(I)	R ITT (CH)	-2	(24) S-T-S	
			GND GND	
		-3		
(I)	SPARE DC ANALOG	(H) -4		
(I)	SPARE DC ANALOG	(L) -5		
		-6		
(I)	R N1 SPEED	(H) -7	(24) S-T-S	XX
(I)	R N1 SPEED	(L) -8	(24) S-T-S	
			GND GND	
		-9		
(I)	R FUEL FLOW - DRUM	-10	(24) S-T-S	XX
(I)	R FUEL FLOW - COMMON	-11	(24) S-T-S	
(I)	R FUEL FLOW - IMPELLER	-12	(24) S-T-S	
			GND GND	
(O)	R FUEL HTR TEMP EXC	(H) -13	(24) S-T-S	XX
(O)	R FUEL HTR TEMP EXC	(L) -14	(24) S-T-S	
			GND GND	
(I)	R FUEL HEATER TEMP	(H) -15	(24) S-T-S	XX
(I)	R FUEL HEATER TEMP	(L) -16	(24) S-T-S	
			GND GND	
		-17		
(I)	R OIL PRESSURE	(H) -18	(24) S-T-S	XX
(I)	R OIL PRESSURE	(L) -19	(24) S-T-S	
			GND GND	
		-20		
(O)	R OIL TEMP EXC	(H) -21	(24) S-T-S	XX
(O)	R OIL TEMP EXC	(L) -22	(24) S-T-S	
			GND GND	
(I)	R OIL TEMP	(H) -23	(24) S-T-S	XX
(I)	R OIL TEMP	(L) -24	(24) S-T-S	
			GND GND	
		-25		
(I)	SPARE POT	(H) -26		
(I)	SPARE POT	(W) -27		
(I)	SPARE POT	(L) -28		
		-29		
		-30		
		-31		
		-32		
		-33		
		-34		
		-35		
		136J2B-36		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DATA ACQUISITION UNIT (DAU) NO. 1 (cont)
DA-800

IO BP	Function	Connector Pin		Connects To
		136J2B-37		
(I)	R N2 SPEED	(H) -38 (24)	----------S-T-S----	XX
(I)	R N2 SPEED	(L) -39 (24)	----------S-T-S----	XX
			GND └┘ └GND	
(O)	DEEC OUTPUT	(H) -40 (24)	----------S-T-S----	FIGURE 8-2
(O)	(ARINC 429 - CH B)	(L) -41 (24)	----------S-T-S----	FIGURE 8-2
			GND └┘ └GND	
(I)	SPARE INPUT	(H) -42		
(I)	(ARINC 429)	(L) -43		
(I)	SPARE INPUT	(H) -44		
(I)	(ARINC 429)	(L) -45		
(I)	SPARE INPUT	(H) -46		
(I)	(ARINC 429)	(L) -47		
(I)	L AIR CONDITIONER	(H) -48 (24)	----------S-T-S----	FIGURE 8-2
(I)	(ARINC 429)	(L) -49 (24)	----------S-T-S----	FIGURE 8-2
			GND └┘ └GND	
(O)	SPARE OUTPUT	(H) -50		
(O)	(ARINC 429 - CH B)	(L) -51		
		-52		
		-53		
		-54		
		-55		
	RESERVED FOR TEST	-56		
	RESERVED FOR TEST	-57		
	RESERVED FOR TEST	-58		
	RESERVED FOR TEST	-59		
	RESERVED FOR TEST	-60		
	RESERVED FOR TEST	-61		
	RESERVED FOR TEST	-62		
	RESERVED FOR TEST	-63		
	RESERVED FOR TEST	-64		
	RESERVED FOR TEST	-65		
	RESERVED FOR TEST	-66		
	RESERVED FOR TEST	-67		
	RESERVED FOR TEST	-68		
	RESERVED FOR TEST	-69		
	RESERVED FOR TEST	136J2B-70		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DATA ACQUISITION UNIT (DAU) NO. 1 (cont)
DA-800

IO BP	Function		Connector Pin		Connects To
			136J2B-71		
			-72		
			-73		
			-74		
			-75		
			-76		
			-77		
			-78		
			-79		
			-80		
			-81		
			-82		
			-83		
			-84		
			-85		
(I)	SPARE DC ANALOG	(H)	-86		
(I)	SPARE DC ANALOG	(L)	-87		
			-88		
			-89		
			-90		
			-91		
			-92		
			-93		
(B)	ASCB NO. 2 BU	(H)	-94	----------S-T-S----	FIGURE 8-1
(B)	(DAU CHANNEL A)	(L)	-96	----------S-T-S----	FIGURE 8-1
				GND┘ └GND	
			-95		
			-96	SEE 136J2B-94	
			-97		
(O)	RESERVED		-98		
(O)	RESERVED		-99		
(I)	RESERVED		-100		
(I)	RESERVED		-101		
			-102		
			-103		
(B)	RS-232 DATA CH B XMTR		-104	(24)----------S-T-S----	FIGURE 8-3
(B)	RS-232 DATA CH B RCVR		-105	(24)----------S-T-S----	FIGURE 8-3
(B)	RS-232 CH B COMMON		136J2B-106	(24)----------S-T-S----	FIGURE 8-3
				GND┘ └GND	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DATA ACQUISITION UNIT (DAU) NO. 2
DA-800

IO BP	Function	Connector Pin	Connects To
	RESERVED	137J1A-1	
	RESERVED	-2	
	RESERVED	-3	
	RESERVED	-4	
	RESERVED	-5	
	RESERVED	-6	
	RESERVED	-7	
	RESERVED	-8	
	RESERVED	-9	
	RESERVED	-10	
	RESERVED	-11	
	RESERVED	-12	
	RESERVED	-13	
	RESERVED	-14	
	RESERVED	-15	
	RESERVED	-16	
	RESERVED	-17	
	RESERVED	-18	
	RESERVED	-19	
	RESERVED	-20	
	RESERVED	-21	
	RESERVED	-22	
	RESERVED	-23	
	RESERVED	-24	
	RESERVED	-25	
	RESERVED	-26	
	RESERVED	-27	
	RESERVED	-28	
	RESERVED	-29	
	RESERVED	-30	
	RESERVED	-31	
	RESERVED	-32	
	RESERVED	-33	
	RESERVED	-34	
	RESERVED	-35	
	RESERVED	137J1A-36	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DATA ACQUISITION UNIT (DAU) NO. 2 (cont)
DA-800

IO BP	Function	Connector Pin		Connects To
	RESERVED	137J1A-37		
	RESERVED	-38		
	RESERVED	-39		
	RESERVED	-40		
	RESERVED	-41		
	RESERVED	-42		
	RESERVED	-43		
	RESERVED	-44		
	RESERVED	-45		
	RESERVED	-46		
	RESERVED	-47		
	RESERVED	-48		
		-49		
		-50		
		-51		
		-52		
		-53		
		-54		
		-55		
		-56		
		-57		
		-58		
		-59		
		-60		
		-61		
		-62		
		-63		
		-64		
		-65		
		-66		
(I)	ID #1 CH A (GND/OPEN)	-67		
(I)	ID #2 CH A (GND/OPEN)	-68	(24)----------	SIGNAL GND
(I)	ID #3 CH A (GND/OPEN)	-69		
		-70		
		-71		
		137J1A-72		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DATA ACQUISITION UNIT (DAU) NO. 2 (cont)
DA-800

IO BP	Function		Connector Pin		Connects To
			137J1A-73		
			-74		
			-75		
			-76		
(B)	ASCB NO. 2 PRI	(H)	-77	S-T-S	FIGURE 8-1
(B)	(DAU CHANNEL B)	(L)	-79	S-T-S (GND, GND)	FIGURE 8-1
			-78		
			-79	SEE 137J1A-77	
			-80		
			-81		
			-82		
			-83		
			-84		
			-85		
			-86		
			-87		
			-88		
			-89		
			-90		
			-91		
			-92		
			-93		
(B)	ASCB NO. 2 PRI	(H)	-94	S-T-S	FIGURE 8-1
(B)	(DAU CHANNEL A)	(L)	-96	S-T-S (GND, GND)	FIGURE 8-1
			-95		
			-96	SEE 137J1A-94	
			-97		
			-98		
(I)	SIGNAL GROUND #1 CH A		-99	(24)	SIGNAL GND
(I)	SIGNAL GROUND #2 CH A		-100	(24)	SIGNAL GND
(I)	CHASSIS GROUND		-101		
			-102		
(P)	+28 VDC POWER CH A		-103	(22)	FIGURE 8-6
(P)	+28 VDC POWER CH A		-104	(22)	FIGURE 8-6
(P)	DC POWER GND CH A		-105	(22)	DC POWER GND
(P)	DC POWER GND CH A		137J1A-106	(22)	DC POWER GND

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DATA ACQUISITION UNIT (DAU) NO. 2 (cont)
DA-800

IO BP	Function	Connector Pin		Connects To
(I)	C ITT (AL)	137J1B-1	(24)	XX
(I)	C ITT (CH)	-2	(24)	
			GND	GND
		-3		
(I)	R WING FUEL QTY	(H) -4	(24)	XX
(I)	R WING FUEL QTY	(L) -5	(24)	
			GND	GND
		-6		
(I)	C N1 SPEED	(H) -7	(24)	XX
(I)	C N1 SPEED	(L) -8	(24)	
			GND	GND
		-9		
(I)	C FUEL FLOW - DRUM	-10	(24)	XX
(I)	C FUEL FLOW - COMMON	-11	(24)	
(I)	C FUEL FLOW - IMPELLER	-12	(24)	
			GND	GND
(O)	C FUEL HTR TEMP EXC	(H) -13	(24)	XX
(O)	C FUEL HTR TEMP EXC	(L) -14	(24)	
			GND	GND
(I)	C FUEL HEATER TEMP	(H) -15	(24)	XX
(I)	C FUEL HEATER TEMP	(L) -16	(24)	
			GND	GND
		-17		
(I)	C OIL PRESSURE	(H) -18	(24)	XX
(I)	C OIL PRESSURE	(L) -19	(24)	
			GND	GND
		-20		
(O)	C OIL TEMP EXC	(H) -21	(24)	XX
(O)	C OIL TEMP EXC	(L) -22	(24)	
			GND	GND
(I)	C OIL TEMP	(H) -23	(24)	XX
(I)	C OIL TEMP	(L) -24	(24)	
			GND	GND
		-25		
(I)	STABILIZER POSITION	(H) -26	(24)	XX
(I)	STABILIZER POSITION	(W) -27	(24)	
(I)	STABILIZER POSITION	(L) -28	(24)	
			GND	GND
		-29		
(I)	AILERON POSITION	(H) -30	(24)	XX
(I)	AILERON POSITION	(W) -31	(24)	
(I)	AILERON POSITION	(L) -32	(24)	
			GND	GND
		137J1B-33		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DATA ACQUISITION UNIT (DAU) NO. 2 (cont)
DA-800

IO BP	Function	Connector Pin		Connects To
(I)	ELEVATOR POSITION (H)	137J1B	-34 (24)	XX
(I)	ELEVATOR POSITION (W)		-35 (24)	
(I)	ELEVATOR POSITION (L)		-36 (24)	
			GND, GND	
			-37	
(I)	C N2 SPEED	(H)	-38 (24)	XX
(I)	C N2 SPEED	(L)	-39 (24)	
			GND, GND	
(O)	DEEC OUTPUT	(H)	-40 (24)	FIGURE 8-2
(O)	(ARINC 429 - CH A)	(L)	-41 (24)	
			GND, GND	
(I)	L DEEC INPUT	(H)	-42 (24)	FIGURE 8-2
(I)	(ARINC 429)	(L)	-43 (24)	
			GND, GND	
(I)	C VIBRATION INPUT	(H)	-44 (24)	FIGURE 8-2
(I)	(ARINC 429)	(L)	-45 (24)	
			GND, GND	
(I)	R DEEC INPUT	(H)	-46 (24)	FIGURE 8-2
(I)	(ARINC 429)	(L)	-47 (24)	
			GND, GND	
(I)	FUEL COMPUTER INPUT	(H)	-48 (24)	FIGURE 8-2
(I)	(ARINC 429)	(L)	-49 (24)	
			GND, GND	
(O)	GPWS OUTPUT	(H)	-50 (24)	FIGURE 8-2
(O)	(ARINC 429 - CH A)	(L)	-51 (24)	
			GND, GND	
			-52	
(O)	RESERVED (FDR OUT)	(H)	-53	
(O)	(ARINC 573/717)	(L)	-54	
			-55	
	RESERVED FOR TEST		-56	
	RESERVED FOR TEST		-57	
	RESERVED FOR TEST		-58	
	RESERVED FOR TEST		-59	
	RESERVED FOR TEST		-60	
	RESERVED FOR TEST		-61	
	RESERVED FOR TEST		-62	
	RESERVED FOR TEST		-63	
	RESERVED FOR TEST		-64	
	RESERVED FOR TEST		-65	
	RESERVED FOR TEST		-66	
	RESERVED FOR TEST		-67	
	RESERVED FOR TEST		-68	
	RESERVED FOR TEST		-69	
	RESERVED FOR TEST	137J1B	-70	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DATA ACQUISITION UNIT (DAU) NO. 2 (cont)
DA-800

IO BP	Function	Connector Pin		Connects To
		137J1B-71		
		-72		
		-73		
		-74		
		-75		
		-76		
		-77		
(I)	#2 RADIO ALTIMETER	(H) -78	(24) ----------S-T-S----]	FIGURE 8-13
(I)	#2 RADIO ALTIMETER	(L) -79	(24) ----------S-T-S----]	
			GND—┘ └—GND	
		-80		
		-81		
		-82		
		-83		
		-84		
		-85		
(I)	NORMAL ACCELERATION	(H) -86	(24) ----------S-T-S----]	XX
(I)	NORMAL ACCELERATION	(L) -87	(24) ----------S-T-S----]	
			GND—┘ └—GND	
		-88		
		-89		
		-90		
		-91		
		-92		
		-93		
(B)	ASCB NO. 2 BU	(H) -94	----------S-T-S----]	FIGURE 8-1
(B)	(DAU CHANNEL A)	(L) -96	----------S-T-S----]	
			GND—┘ └—GND	
		-95		
		-96	SEE 137J1B-94	
		-97		
(O)	RESERVED	-98		
(O)	RESERVED	-99		
(I)	RESERVED	-100		
(I)	RESERVED	-101		
		-102		
		-103		
(B)	RS-232 DATA CH A XMTR	-104	(24)----------S-T-S----]	FIGURE 8-3
(B)	RS-232 DATA CH A RCVR	-105	(24)----------S-T-S----}	
(B)	RS-232 CH A COMMON	137J1B-106	(24)----------S-T-S----]	
			GND—┘ └—GND	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DATA ACQUISITION UNIT (DAU) NO. 2 (cont)
DA-800

IO BP	Function	Connector Pin		Connects To
(I)	CTR DEEC MANUAL (G/O)	137J2A-1	(24)----------	XX
(I)	CTR FUEL FLTR BYPASS (G/O)	-2	(24)----------	XX
(I)	LT WING FUEL LVL LOW (G/O)	-3	(24)----------	XX
(I)	RT WING FUEL LVL LOW (G/O)	-4	(24)----------	XX
(I)	LT WING LOW FUEL (G/O)	-5	(24)----------	XX
(I)	RT WING LOW FUEL (G/O)	-6	(24)----------	XX
(I)	FUEL XFR VALVE OPEN (G/O)	-7	(24)----------	XX
(I)	FUEL XFR MSG AMB/GRN (G/O)	-8	(24)----------	XX
(I)	CTR ENG ANTI-ICE ON (G/O)	-9	(24)----------	XX
(I)	CTR BLEED OVERHEAT (G/O)	-10	(24)----------	XX
(I)	CREW A/C OVERHEAT (G/O)	-11	(24)----------	XX
(I)	RT PITOT HEAT OFF (G/O)	-12	(24)----------	XX
(I)	RT AOA HEAT OFF (G/O)	-13	(24)----------	XX
(I)	WEIGHT ON LT MN GEAR (G/O)	-14	(24)----------	FIGURE 8-5
(I)	WEIGHT ON NOSE GEAR (G/O)	-15	(24)----------	FIGURE 8-5
(I)	WEIGHT ON RT MN GEAR (G/O)	-16	(24)----------	FIGURE 8-5
(I)	THRUST REV LVR ARMED (G/O)	-17	(24)----------	XX
(I)	THRUST REV IN TRANSIT (G/O)	-18	(24)----------	XX
(I)	THRUST REV DEPLOYED (G/O)	-19	(24)----------	XX
(I)	WHEEL BRAKE ACTIVE (G/O)	-20	(24)----------	XX
(I)	PARKING BRAKE SET (G/O)	-21	(24)----------	XX
(I)	FWD SERVICE DOOR OPEN (G/O)	-22	(24)----------	XX
(I)	IN-FLT BAGG DOOR OPEN (G/O)	-23	(24)----------	XX
(I)	MASTER CAUTION ANN (G/O)	-24	(24)----------	XX
(I)	COPILOT PUSH TO TALK (G/O)	-25	(24)----------	XX
(I)	FDR FAIL (G/O)	-26	(24)----------	XX
(I)	EXT SLATS EXTENDED (G/O)	-27	(24)----------	XX
(I)	INBRD SLATS EXTENDED (G/O)	-28	(24)----------	XX
(I)	MED AIR BRKS RETRACT (G/O)	-29	(24)----------	XX
(I)	INT AIR BRKE RETRACT (G/O)	-30	(24)----------	XX
(I)	CTR HYD PRESSURE LOW (G/O)	-31	(24)----------	XX
(I)	HF 2 SELCAL ACTIVE (G/O)	-32	(24)----------	XX
(I)	SPARE (G/O)	-33		
(I)	SPARE (G/O)	-34		
(I)	SPARE (G/O)	-35		
(I)	SPARE (G/O)	137J2A-36		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DATA ACQUISITION UNIT (DAU) NO. 1 (cont)
DA-800

IO BP	Function	Connector Pin		Connects To
(I)	CTR ENG IGN (28/O)	137J2A-37		
(I)	SPARE (28/O)	-38		
(I)	AIR BRAKES 1 EXTEND (28/O)	-39		
(I)	AIR BRAKES 2 EXTEND (28/O)	-40	(24)----------	XX
(I)	FLAPS 7 DEG SEL (28/O)	-41	(24)----------	XX
(I)	FLAPS 20 DEG SEL (28/O)	-42	(24)----------	XX
(I)	FLAPS 40 DEG SEL (28/O)	-43	(24)----------	XX
(I)	EMERG SLATS EXTENDED (28/O)	-44	(24)----------	XX
(I)	END ITEM TEST (28/O)	-45		
(I)	CTR ENG START (28/O)	-46	(24)----------	XX
(I)	RT BUS VOLTAGE NORM (28/O)	-47	(24)----------	XX
(I)	RAD ALT 2 VALID (28/O)	-48	(24)----------	FIGURE 8-13
		-49		
		-50		
		-51		
		-52		
		-53		
		-54		
		-55		
		-56		
		-57		
		-58		
		-59		
		-60		
		-61		
		-62		
		-63		
		-64		
		-65		
		-66		
(I)	ID #1-CHB (GND/OPEN)	-67		
(I)	ID #2-CHB (GND/OPEN)	-68	(24)----------	SIGNAL GND
(I)	ID #3-CHB (GND/OPEN)	-69		
		-70		
		-71		
		137J2A-72		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DATA ACQUISITION UNIT (DAU) NO. 2 (cont)
DA-800

IO BP	Function		Connector Pin		Connects To
			137J2A-73		
			-74		
			-75		
			-76		
(B)	ASCB NO. 1 PRI	(H)	-77	S-T-S	FIGURE 8-1
(B)	(DAU CHANNEL B)	(L)	-79	S-T-S (GND, GND)	FIGURE 8-1
			-78		
			-79	SEE 137J2A-77	
			-80		
			-81		
			-82		
			-83		
			-84		
			-85		
			-86		
			-87		
			-88		
			-89		
			-90		
			-91		
			-92		
			-93		
(B)	ASCB NO. 1 PRI	(H)	-94	S-T-S	FIGURE 8-1
(B)	(DAU CHANNEL A)	(L)	-96	S-T-S (GND, GND)	FIGURE 8-1
			-95		
			-96	SEE 137J2A-94	
			-97		
			-98		
(I)	SIGNAL GROUND #1 CH B		-99	(24)	SIGNAL GND
(I)	SIGNAL GROUND #2 CH B		-100	(24)	SIGNAL GND
(I)	CHASSIS GROUND		-101		
			-102		
(P)	+28 VDC POWER CH B		-103	(22)	FIGURE 8-6
(P)	+28 VDC POWER CH B		-104	(22)	FIGURE 8-6
(P)	DC POWER GND CH B		-105	(22)	DC POWER GND
(P)	DC POWER GND CH B		137J2A-106	(22)	DC POWER GND

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DATA ACQUISITION UNIT (DAU) NO. 2 (cont)
DA-800

IO BP	Function		Connector Pin		Connects To
(I)	SPARE	(AL)	137J2B-1		
(I)	THERMOCOUPLE	(CH)	-2		
			-3		
(I)	SPARE DC ANALOG	(H)	-4		
(I)	SPARE DC ANALOG	(L)	-5		
			-6		
(I)	SPARE TACH	(H)	-7		
(I)	SPARE TACH	(L)	-8		
			-9		
(I)	SPARE FUEL FLOW - DRUM		-10		
(I)	SPARE FUEL FLOW - COMMON		-11		
(I)	SPARE FUEL FLOW - IMPELLER		-12		
(O)	C FUEL TEMP EXC	(H)	-13	(24) ----------S-T-S----	XX
(O)	C FUEL TEMP EXC	(L)	-14	(24) ----------S-T-S----	XX
				GND┘ └GND	
(I)	C FUEL TEMP	(H)	-15	(24) ----------S-T-S----	XX
(I)	C FUEL TEMP	(L)	-16	(24) ----------S-T-S----	XX
				GND┘ └GND	
			-17		
(I)	SPARE DC ANALOG	(H)	-18		
(I)	SPARE DC ANALOG	(L)	-19		
			-20		
(O)	SPARE RTD EXC	(H)	-21		
(O)	SPARE RTD EXC	(L)	-22		
(I)	SPARE RTD	(H)	-23		
(I)	SPARE RTD	(L)	-24		
			-25		
(I)	SPARE POT	(H)	-26		
(I)	SPARE POT	(W)	-27		
(I)	SPARE POT	(L)	-28		
			-29		
			-30		
			-31		
			-32		
			-33		
			-34		
			-35		
			137J2B-36		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DATA ACQUISITION UNIT (DAU) NO. 2 (cont)
DA-800

IO BP	Function		Connector Pin		Connects To
			137J2B-37		
(I)	SPARE TACH	(H)	-38		
(I)	SPARE TACH	(L)	-39		
(O)	DEEC OUTPUT	(H)	-40	(24)----------S-T-S----⎫	FIGURE 8-2
(O)	(ARINC 429 - CH B)	(L)	-41	(24)----------S-T-S----⎭	
				GND—┘ └—GND	
(I)	SPARE INPUT	(H)	-42		
(I)	(ARINC 429)	(L)	-43		
(I)	SPARE INPUT	(H)	-44		
(I)	(ARINC 429)	(L)	-45		
(I)	SPARE INPUT	(H)	-46		
(I)	(ARINC 429)	(L)	-47		
(I)	R AIR CONDITIONER	(H)	-48	(24)----------S-T-S----⎫	FIGURE 8-2
(I)	(ARINC 429)	(L)	-49	(24)----------S-T-S----⎭	
				GND—┘ └—GND	
(O)	SPARE OUTPUT	(H)	-50		
(O)	(ARINC 429 - CH B)	(L)	-51		
			-52		
			-53		
			-54		
			-55		
	RESERVED FOR TEST		-56		
	RESERVED FOR TEST		-57		
	RESERVED FOR TEST		-58		
	RESERVED FOR TEST		-59		
	RESERVED FOR TEST		-60		
	RESERVED FOR TEST		-61		
	RESERVED FOR TEST		-62		
	RESERVED FOR TEST		-63		
	RESERVED FOR TEST		-64		
	RESERVED FOR TEST		-65		
	RESERVED FOR TEST		-66		
	RESERVED FOR TEST		-67		
	RESERVED FOR TEST		-68		
	RESERVED FOR TEST		-69		
	RESERVED FOR TEST		137J2B-70		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DATA ACQUISITION UNIT (DAU) NO. 2 (cont)
DA-800

IO BP	Function		Connector Pin		Connects To
			137J2B-71		
			-72		
			-73		
			-74		
			-75		
			-76		
			-77		
			-78		
			-79		
			-80		
			-81		
			-82		
			-83		
			-84		
			-85		
(I)	SPARE DC ANALOG	(H)	-86		
(I)	SPARE DC ANALOG	(L)	-87		
			-88		
			-89		
			-90		
			-91		
			-92		
			-93		
(B)	ASCB NO. 1 BU	(H)	-94	----------S-T-S----	FIGURE 8-1
(B)	(DAU CHANNEL A)	(L)	-96	----------S-T-S----	FIGURE 8-1
				GND┘ └GND	
			-95		
			-96	SEE 137J2B-94	
			-97		
(O)	RESERVED		-98		
(O)	RESERVED		-99		
(I)	RESERVED		-100		
(I)	RESERVED		-101		
			-102		
			-103		
(B)	RS-232 DATA CH B XMTR		-104	(24)----------S-T-S----	FIGURE 8-3
(B)	RS-232 DATA CH B RCVR		-105	(24)----------S-T-S----	FIGURE 8-3
(B)	RS-232 CH B COMMON		137J2B-106	(24)----------S-T-S----	FIGURE 8-3
				GND┘ └GND	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

GLOBAL NAVIGATION SATELLITE SENSOR (GNSSU) NO. 1

GNSSU

IO BP	Function		Connector Pin		Connects To
(O)	GNSSU FAULT		149J1-1		
(O)	RS-232 XMTR		-2	(24)----------	FIGURE 8-3
(I)	RS-232 RCVR		-3	(24)----------	
(I)	DATA LOADER INPUT	(H)	-4		
(I)	(ARINC 429)	(L)	-15		
(I)	SDI #2		-5	(24)----------	149J1-8
(I)	SDI #1		-36		
(I)	PRI DADC INPUT	(H)	-6		
(I)	(ARINC 429)	(L)	-7		
(O)	PROG DISCRETE RETURN		-8	(24)----------	149J1-5
(O)	TIME MARK #2	(H)	-9	(24)----------S-T-S----	C17OJ1A-G2
(O)	TIME MARK #2	(L)	-22	(24)----------S-T-S----	C17OJ1A-G3
				GND┘ └GND	
(I)	SEC DADC INPUT	(H)	-10		
(I)	(ARINC 429)	(L)	-11		
(I)	DATA LOAD MODE DISCRETE		-12		
(O)	TIME MARK #3	(H)	-13	(24)----------S-T-S----	E17OJ1A-F4
(O)	TIME MARK #3	(L)	-14	(24)----------S-T-S----	E17OJ1A-F5
				GND┘ └GND	
			-15	SEE 149J1-4	
(I)	GEN PURP INPUT #1	(H)	-16		
(I)	(ARINC 429)	(L)	-17		
(I)	PRI IRS/FMC IN	(H)	-18	(24)----------S-T-S----	FIGURE 8-2
(I)	(ARINC 429)	(L)	-37	(24)----------S-T-S----	
				GND┘ └GND	
(O)	TIME MARK #1	(H)	-19	(24)----------S-T-S----	17OJ1A-F4
(O)	TIME MARK #1	(L)	-20	(24)----------S-T-S----	17OJ1A-F5
				GND┘ └GND	
(I)	429 OUT HS/LS SELECT		-21		
			149J1-22	SEE 149J1-9	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

GLOBAL NAVIGATION SATELLITE SENSOR (GNSSU) NO. 1
GNSSU

IO BP	Function		Connector Pin		Connects To
(I)	GEN PURP INPUT #2	(H)	149J1-23		
(I)	(ARINC 429)	(L)	-41		
(O)	GNSSU OUTPUT #2	(H)	-24	(24)----------S-T-S----	FIGURE 8-2
(O)	(ARINC 429)	(L)	-25	(24)----------S-T-S----	
				GND┘ └GND	
(I)	SEC IRS/FMC IN	(H)	-26	(24)----------S-T-S----	FIGURE 8-2
(I)	(ARINC 429)	(L)	-27	(24)----------S-T-S----	
				GND┘ └GND	
(I)	AIR/GROUND		-28	(24)----------	FIGURE 8-5
(O)	GNSSU OUTPUT #3	(H)	-29	(24)----------S-T-S----	FIGURE 8-2
(O)	(ARINC 429)	(L)	-30	(24)----------S-T-S----	
				GND┘ └GND	
(I)	CMC IN	(H)	-31		
(I)	(ARINC 429)	(L)	-32		
(I)	CHASSIS GROUND		-33		
(P)	DC POWER GND		-34	(22)----------	DC POWER GND
(P)	+28 VDC POWER		-35	(22)----------	FIGURE 8-6
			-36	SEE 149J1-5	
			-37	SEE 149J1-18	
(O)	GNSSU OUTPUT #1	(H)	-38	(24)----------S-T-S----	FIGURE 8-2
(O)	(ARINC 429)	(L)	-39	(24)----------S-T-S----	
				GND┘ └GND	
(I)	DADC IN 419/429 SELECT		-40		
			149J1-41	SEE 149J1-23	
(I)	ANTENNA		149J2-1 (*)	--O----------O--	GPS ANTENNA
(I)	ANTENNA		149J2-2 ——┘	└——	GPS ANTENNA

(*) PIC WIRE AND CABLE PART NO. T556124 FOR 13 FT. LENGTH, FOR SMALLER SECTION USE PART NO. SF-5224

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INERTIAL REFERENCE UNIT NO. 1
LASEREF III

IO BP	Function	Connector Pin		Connects To
(I)	IDENT RESISTOR R1	170J1A-A1		
	RESERVED	-A2		
	RESERVED	-A3		
	RESERVED	-A4		
	RESERVED	-A5		
	RESERVED	-A6		
(I)	SDI/4 (GND/OPEN)	-A7	(24)----------	FIGURE 8-4
	RESERVED	-A8		
	RESERVED	-A9		
	RESERVED	-A10		
	RESERVED	-A11		
	RESERVED	-A12		
	RESERVED	-A13		
	RESERVED	-A14		
	RESERVED	-A15		
(I)	IDENT RESISTOR R2	-B1		
	RESERVED	-B2		
	RESERVED	-B3		
	RESERVED	-B4		
	RESERVED	-B5		
	RESERVED	-B6		
	RESERVED	-B7		
	RESERVED	-B8		
	RESERVED	-B9		
	RESERVED	-B10		
	RESERVED	-B11		
	RESERVED	-B12		
	RESERVED	-B13		
	RESERVED	-B14		
	RESERVED	170J1A-B15		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INERTIAL REFERENCE UNIT NO. 1 (cont)
LASEREF III

IO BP	Function	Connector Pin	Connects To
(I)	IDENT RESISTOR R3	17OJ1A-C1	
(I)	IDENT RESISTOR COM	-C2	
	RESERVED	-C3	
	RESERVED	-C4	
	RESERVED	-C5	
	RESERVED	-C6	
	RESERVED	-C7	
	RESERVED	-C8	
	RESERVED	-C9	
(B)	ASCB NO. 1 PRI (H)	-C10 ----------S-T-S----]	FIGURE 8-1
(B)	ASCB NO. 1 PRI (L)	-C13 ----------S-T-S----]	
		GND-┘ └-GND	
	RESERVED	-C11	
	RESERVED	-C12	
		-C13 SEE 17OJ1A-C10	
	RESERVED	-C14	
	RESERVED	-C15	
(I)	IDENT RESISTOR R4	-D1	
	RESERVED	-D2	
	RESERVED	-D3	
	RESERVED	-D4	
	RESERVED	-D5	
	RESERVED	-D6	
	RESERVED	-D7	
	RESERVED	-D8	
	RESERVED	-D9	
	RESERVED	-D10	
	RESERVED	-D11	
	RESERVED	-D12	
	RESERVED	-D13	
	RESERVED	-D14	
	RESERVED	17OJ1A-D15	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INERTIAL REFERENCE UNIT NO. 1 (cont)
LASEREF III

IO BP	Function	Connector Pin		Connects To
(I)	LAB LOCKOUT	17OJ1A-E1		
(I)	GNSSU NO. 1 (H)	-E2	(24)----------S-T-S----┐	FIGURE 8-2
(I)	A-429 RCVR (L)	-E3	(24)----------S-T-S----┘	
			GND┘ └GND	
(I)	GNSSU NO. 2 (H)	-E4	(24)----------S-T-S----┐	FIGURE 8-2
(I)	A-429 RCVR (L)	-E5	(24)----------S-T-S----┘	
			GND┘ └GND	
(I)	CTVAL1	-E6		
(I)	CTVAL2	-E7		
	RESERVED	-E8		
	RESERVED	-E9		
(O)	AC FAIL LOGIC	-E10		
(O)	AC TO BATT XFER	-E11		
	RESERVED	-E12		
	RESERVED	-E13		
	RESERVED	-E14		
	RESERVED	-E15		
	RESERVED	-F1		
	RESERVED	-F2		
	RESERVED	-F3		
(I)	GNSSU 1 TIME MARK 1 (H)	-F4	(24)----------S-T-S----	149J1-19
(I)	GNSSU 1 TIME MARK 1 (L)	-F5	(24)----------S-T-S----	149J1-20
			GND┘ └GND	
	RESERVED	-F6		
	RESERVED	-F7		
	RESERVED	-F8		
	RESERVED	-F9		
(B)	ASCB NO. 2 PRI (H)	-F10	--------------S-T-S----┐	FIGURE 8-1
(B)	ASCB NO. 2 PRI (L)	-F13	--------------S-T-S----┘	
			GND┘ └GND	
	RESERVED	-F11		
	RESERVED	-F12		
		-F13	SEE 17OJ1A-F10	
	RESERVED	-F14		
	RESERVED	17OJ1A-F15		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INERTIAL REFERENCE UNIT NO. 1 (cont)
LASEREF III

IO BP	Function	Connector Pin		Connects To
	RESERVED	170J1A-G1		
(I)	GNSSU 2 TIME MARK 2 (H)	-G2	(24)----------S-T-S----	C149J1-9
(I)	GNSSU 2 TIME MARK 2 (L)	-G3	(24)----------S-T-S----	C149J1-22
			GND┘ └GND	
	RESERVED	-G4		
	RESERVED	-G5		
	RESERVED	-G6		
	RESERVED	-G7		
	RESERVED	-G8		
(O)	CHARGER INHIBIT	-G9	(24)----------	BATT CHARGER INHIBIT INPUT
	RESERVED	-G10		
	RESERVED	-G11		
	RESERVED	-G12		
	RESERVED	-G13		
	RESERVED	-G14		
	RESERVED	-G15		
	RESERVED	-H1		
	RESERVED	-H2		
(B)	RS-232 DATA XMTR	-H3	(24)----------S-T-S----┐	
(B)	RS-232 DATA RCVR	-H4	(24)----------S-T-S----┤	FIGURE 8-3
(B)	RS-232 COMMON	-H7	(24)----------S-T-S----┘	
			GND┘ └GND	
(B)	RS-232 DTR	-H5		
(B)	RS-232 CTS	-H6		
		-H7	SEE 170J1A-H3	
	RESERVED	-H8		
	RESERVED	-H9		
(I)	MEM ACCESS WR ENABLE	-H10	(24)----------	FIGURE 8-3
	RESERVED	-H11		
	RESERVED	-H12		
	RESERVED	-H13		
	RESERVED	-H14		
	RESERVED	170J1A-H15		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INERTIAL REFERENCE UNIT NO. 1 (cont)
LASEREF III

IO BP	Function	Connector Pin		Connects To
	RESERVED	170J1A-J1		
	RESERVED	-J2		
	RESERVED	-J3		
	RESERVED	-J4		
	RESERVED	-J5		
	RESERVED	-J6		
	RESERVED	-J7		
	RESERVED	-J8		
(I)	SDI/3 (GND/OPEN)	-J9	(24)----------	FIGURE 8-4
	RESERVED	-J10		
	RESERVED	-J11		
	RESERVED	-J12		
	RESERVED	-J13		
	RESERVED	-J14		
	RESERVED	-J15		
	RESERVED	-K1		
	RESERVED	-K2		
(B)	ASCB NO. 1 BU (H)	-K3	----------S-T-S----┐	FIGURE 8-1
(B)	ASCB NO. 1 BU (L)	-K5	----------S-T-S----┘	
			GND┘ └GND	
	RESERVED	-K4		
		-K5	SEE 170J1A-K3	
(I)	BITE WRITE INHIBIT	-K6		
(I)	ASCB 2 CLK (H)	-K7		
(I)	ASCB 2 CLK (L)	-K9		
	RESERVED	-K8		
		-K9	SEE 170J1A-K7	
	RESERVED	-K10		
	RESERVED	-K11		
	RESERVED	-K12		
	RESERVED	-K13		
	RESERVED	-K14		
	RESERVED	170J1A-K15		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INERTIAL REFERENCE UNIT NO. 1 (cont)
LASEREF III

IO BP	Function	Connector Pin		Connects To
(O)	LOGIC GROUND	170J1B-A1	(24)----------	FIGURE 8-4
(I)	IRU ORIENT/1	-A2	(24)----------	FIGURE 8-4
(I)	IRU ORIENT/2	-A3	(24)----------	FIGURE 8-4
	RESERVED	-A4		
	RESERVED	-A5		
	RESERVED	-A6		
(I)	SDI/2 (GND/OPEN)	-A7	(24)----------	FIGURE 8-4
(I)	FMS PRI GEN BUS #1 (H)	-A8		
(I)	A-429 RCVR #1 (L)	-A9		
(I)	REMOTE TEST (GND/OPEN)	-A10	(24)----------	172J1-W
	RESERVED	-A11		
	RESERVED	-A12		
(I)	ISDU/NDU NO. 3 (H)	-A13		
(I)	A-429 RCVR (L)	-A14		
(O)	BATTERY FAIL ANNUN (GND/OPEN)	-A15	(24)----------	172J1-Z
	RESERVED	-B1		
	RESERVED	-B2		
	RESERVED	-B3		
	RESERVED	-B4		
	RESERVED	-B5		
	RESERVED	-B6		
	RESERVED	-B7		
	RESERVED	-B8		
	RESERVED	-B9		
	RESERVED	-B10		
	RESERVED	-B11		
	RESERVED	-B12		
	RESERVED	-B13		
	RESERVED	-B14		
	RESERVED	170J1B-B15		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INERTIAL REFERENCE UNIT NO. 1 (cont)
LASEREF III

IO BP	Function	Connector Pin	Connects To
	RESERVED	170J1B-C1	
	RESERVED	-C2	
	RESERVED	-C3	
	RESERVED	-C4	
(I)	FMS SEC GEN BUS (H)	-C5	
(I)	A-429 RCVR #2 (L)	-C6	
	RESERVED	-C7	
	RESERVED	-C8	
	RESERVED	-C9	
	RESERVED	-C10	
	RESERVED	-C11	
	RESERVED	-C12	
	RESERVED	-C13	
	RESERVED	-C14	
	RESERVED	-C15	
	RESERVED	-D1	
(O)	FAULT ANNUNCIATOR (GND/OPEN)	-D2 (24)----------	172J1-P
(O)	ATT ANNUNCIATOR (GND/OPEN)	-D3	
	RESERVED	-D4	
	RESERVED	-D5	
	RESERVED	-D6	
	RESERVED	-D7	
	RESERVED	-D8	
	RESERVED	-D9	
	RESERVED	-D10	
	RESERVED	-D11	
	RESERVED	-D12	
	RESERVED	-D13	
	RESERVED	-D14	
	RESERVED	170J1B-D15	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INERTIAL REFERENCE UNIT NO. 1 (cont)
LASEREF III

IO BP	Function	Connector Pin		Connects To
(O)	NO COOLING AIR ANNUN (GND/OPEN)	170J1B-E1	(24)----------	172J1-Y
(O)	ON DC ANNUNCIATOR (GND/OPEN)	-E2		
(O)	NAV RDY ANNUNCIATOR (GND/OPEN)	-E3	(24)----------	172J1-X
	RESERVED	-E4		
(O)	IRS DATA OUT #2 (H)	-E5	(24)----------S-T-S----	FIGURE 8-2
(O)	(ARINC 429 XMTR) (L)	-E6	(24)----------S-T-S---- GND GND	FIGURE 8-2
	RESERVED	-E7		
	RESERVED	-E8		
	RESERVED	-E9		
	RESERVED	-E10		
	RESERVED	-E11		
	RESERVED	-E12		
	RESERVED	-E13		
	RESERVED	-E14		
	RESERVED	-E15		
(I)	MODE DISCRETE/1	-F1	(24)----------	172J1-e
(I)	MODE DISCRETE/2	-F2	(24)----------	172J1-f
(O)	ALIGN ANNUNCIATOR (GND/OPEN)	-F3	(24)----------	172J1-a
	RESERVED	-F4		
	RESERVED	-F5		
	RESERVED	-F6		
	RESERVED	-F7		
	RESERVED	-F8		
	RESERVED	-F9		
	RESERVED	-F10		
	RESERVED	-F11		
	RESERVED	-F12		
	RESERVED	-F13		
(O)	IRS DATA OUT #4 (H)	-F14	(24)----------S-T-S----	FIGURE 8-2
(O)	(ARINC 429 XMTR) (L)	170J1B-F15	(24)----------S-T-S---- GND GND	FIGURE 8-2

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INERTIAL REFERENCE UNIT NO. 1 (cont)
LASEREF III

IO BP	Function		Connector Pin	Connects To
	RESERVED		17OJ1B-G1	
	RESERVED		-G2	
	RESERVED		-G3	
	RESERVED		-G4	
	RESERVED		-G5	
	RESERVED		-G6	
(O)	IRS DATA OUT #1	(H)	-G7	
(O)	(ARINC 429 XMTR)	(L)	-G8	
	RESERVED		-G9	
	RESERVED		-G10	
	RESERVED		-G11	
	RESERVED		-G12	
	RESERVED		-G13	
(O)	IRS DATA OUT #5	(H)	-G14	
(O)	(ARINC 429 XMTR)	(L)	-G15	
	RESERVED		-H1	
	RESERVED		-H2	
	RESERVED		-H3	
	RESERVED		-H4	
	RESERVED		-H5	
	RESERVED		-H6	
	RESERVED		-H7	
	RESERVED		-H8	
	RESERVED		-H9	
	RESERVED		-H10	
	RESERVED		-H11	
	RESERVED		-H12	
	RESERVED		-H13	
(O)	IRS DATA OUT #6	(H)	-H14	
(O)	(ARINC 429 XMTR)	(L)	17OJ1B-H15	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INERTIAL REFERENCE UNIT NO. 1 (cont)
LASEREF III

IO BP	Function	Connector Pin	Connects To
	RESERVED	170J1B-J1	
	RESERVED	-J2	
	RESERVED	-J3	
	RESERVED	-J4	
	RESERVED	-J5	
(I)	DADC 575/429 SEL	-J6 (24)----------	FIGURE 8-4
	RESERVED	-J7	
	RESERVED	-J8	
(I)	SDI/1 (GND/OPEN)	-J9 (24)----------	FIGURE 8-4
(I)	SEC DADC DATA ⌈(H)	-J10	
(I)	A-429 RCVR #5 ⌊(L)	-J11	
	RESERVED	-J12	
	RESERVED	-J13	
	RESERVED	-J14	
(O)	ON BATTERY ANNUN	-J15 (24)----------	172J1-g
	RESERVED	-K1	
	RESERVED	-K2	
	RESERVED	-K3	
(I)	PRI DADC DATA ⌈(H)	-K4	
(I)	A-429 RCVR #4 ⌊(L)	-K5	
	RESERVED	-K6	
	RESERVED	-K7	
	RESERVED	-K8	
	RESERVED	-K9	
	RESERVED	-K10	
	RESERVED	-K11	
(O)	IRS DATA OUT #3 (H)	-K12	
(O)	(ARINC 429 XMTR) (L)	-K13	
	RESERVED	-K14	
	RESERVED	170J1B-K15	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INERTIAL REFERENCE UNIT NO. 1 (cont)
LASEREF III

IO BP	Function	Connector Pin		Connects To
(P)	115 VAC INPUT	17OJ1C-1		
(P)	24 VDC BATT INPUT	-2	(20)----------	FIGURE 8-6
	RESERVED	-3		
(P)	28 VDC ESSENTIAL	-4	(20)----------	FIGURE 8-6
(P)	115 VAC RETURN	-5		
(P)	28 VDC MSU POWER OUTPUT	-6		
(P)	28 VDC PRIMARY POWER	-7	(20)----------	FIGURE 8-6
(P)	28 VDC/BATTERY POWER RTN	-8	(20)----------	DC POWER GND
(P)	ANNUNCIATOR POWER OUT	-9	(22)----------	172J1-L
(P)	ANNUNCIATOR POWER IN	-10	(22)----------	FIGURE 8-7
(I)	CHASSIS GND	-11		
	RESERVED	-12		
	RESERVED	17OJ1C-13		
	TRAY FAN POWER (RED)		(22)----------	17OJ1C-7
	TRAY FAN POWER GND (BLK)		(22)----------	DC GND

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

IRS MODE SELECTION UNIT NO. 1
MSU

IO BP	Function	Connector Pin			Connects To
(I)	CHASSIS GND	172J1-A			
	SPARE	-B			
	SPARE	-C			
	SPARE	-D			
	SPARE	-E			
	SPARE	-F			
	SPARE	-G			
	SPARE	-H			
	SPARE	-J			
(P)	ON BATT ANNUN PWR INPUT	-K	(24)	----------	FIGURE 8-6
(P)	ANNUN PWR	-L	(22)	----------	170J1C-9
(P)	+28 VDC (IRU BLOWER)	-M			
(O)	IRU BLOWER CONTROL (28V/OPEN)	-N			
(I)	FAULT ANNUN (GND/OPEN)	-P	(24)	----------	170J1B-D2
	SPARE	-R			
(P)	0-5 VDC PANEL LIGHTING (H)	-S	(22)	----------	FIGURE 8-7
(P)	0-5 VDC PANEL LIGHTING (L)	-T	(22)	----------	LIGHTING GND
(I)	LOGIC GND	-U	(24)	----------	FIGURE 8-4
(I)	TEST GND	-V	(24)	----------	SIGNAL GND
(O)	TEST SW (GND/OPEN)	-W	(24)	----------	170J1B-A10
(I)	NAV RDY ANNUN (GND/OPEN)	-X	(24)	----------	170J1B-E3
(I)	NO AIR ANNUN (GND/OPEN)	-Y	(24)	----------	170J1B-E1
(I)	BATT FAIL ANNUN (GND/OPEN)	-Z	(24)	----------	170J1B-A15
(I)	ALIGN ANNUN (GND/OPEN)	-a	(24)	----------	170J1B-F3
	SPARE	-b			
	SPARE	-c			
	SPARE	-d			
(O)	MODE SELECT 1	-e	(24)	----------	170J1B-F1
(O)	MODE SELECT 2	172J1-f	(24)	----------	170J1B-F2
(I)	ON BATT ANNUN (GND/OPEN)	172J1-g	(24)	----------	170J1B-J15
(I)	ANNUN TST (GND/OPEN)	-h	(24)	----------	FIGURE 8-7
	SPARE	172J1-j			

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 1
IC-800

IO BP	Function	Connector Pin		Connects To
(I)	SIGNAL GROUND	190J1A-1	(22)----------	SIGNAL GND
(O)	+28V ELEV TRIM CLUTCH OUT	-2		
(I)	IAC IDENT 2 (GND/OPEN)	-3	(24)----------	SIGNAL GND
	FGC RESERVED	-4		
(B)	ASCB NO. 1 BU (H)	-5	----------S-T-S----	FIGURE 8-1
(B)	ASCB NO. 1 BU (L)	-7	----------S-T-S----	
			GND┘ └GND	
(B)	BC RS-232 DATA RCVR	-6	(24)----------S-T-S----	FIGURE 8-3
(B)	BC RS-232 DATA XMTR	-77	(24)----------S-T-S----	
(B)	BC/DL RS-232 COMMON	-96	(24)----------S-T-S----	
			GND┘ └GND	
		-7	SEE 190J1A-5	
(P)	28 VDC AP SERVO PWR RTN	-8	(22)----------	DC POWER GND
(P)	28 VDC AP SERVO PWR RTN	-9	(22)----------	DC POWER GND
	BC RESERVED	-10		
(P)	28 VDC AP SERVO POWER	-11	(22)----------	FIGURE 8-6
(P)	28 VDC AP SERVO POWER	-12	(22)----------	
(O)	SPARE (H)	-13		
(O)	IOP RS-422 TX (L)	-14		
(I)	DU #4 WRAPAROUND A-429 RCVR #12 (L)	-15	(24)----------S-T-S----	C131J1-79, C190J1A-15, E190J1A-15
(I)	(H)	-16	(24)----------S-T-S----	C131J1-66, C190J1A-16 E190J1A-16
			GND┘ └GND	
(I)	TAG SYNC IN #2 (OPEN/GND)	-17	(24)----------	C190J1C-70, E190J1A-18
(I)	TAG SYNC IN #3 (OPEN/GND)	-18	(24)----------	C190J1A-18, E190J1C-70
(I)	CDU SYNC IN #2 (OPEN/GND)	-19	(24)----------	C190J1C-69, E190J1A-32
(O)	GENERAL BUS #1 (H)	-20	(24)----------S-T-S----	FIGURE 8-2
(O)	A-429 XMTR #1 (L)	190J1A-21	(24)----------S-T-S----	
			GND┘ └GND	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 1 (cont)
IC-800

IO BP	Function	Connector Pin	Connects To
	SPARE CARD RESERVED	190J1A-22	
	SPARE CARD RESERVED	-23	
(O)	DU BUS TX #2 (H)	-24 S-T-S	FIGURE 8-14
(O)	DU BUS TX #2 (L)	-25 S-T-S (GND, GND)	
(I)	LRN #2 A-429 RCVR #15 (H)	-26 (24) S-T-S	FIGURE 8-2
(I)	LRN #2 A-429 RCVR #15 (L)	-27 (24) S-T-S (GND, GND)	
(I)	DU #3 WRAPAROUND A-429 RCVR #11 (L)	-28 (24) S-T-S	132J1-79, C190J1A-28, E190J1A-28
(I)	DU #3 WRAPAROUND A-429 RCVR #11 (H)	-29 (24) S-T-S (GND, GND)	132J1-66, C190J1A-29, E190J1A-29
(I)	SPARE (H)	-30	
(I)	IOP RS-422 RX (L)	-31	
(I)	CDU SYNC IN #3 (GND/OPEN)	-32 (24)	C190J1A-32, E190J1C-69
(I)	SPARE FMS DISC IN (GND/OPEN)	-33	
(I)	SPARE FMS DISC IN (GND/OPEN)	-34	
(I)	SPARE FWC DISC IN (GND/OPEN)	-35	
(I)	WX CONTROL DATA #1 IOP RS-422 RX (L)	-36 (24) S-T-S	59J1-n, C190J1A-36, E190J1A-36
(I)	WX CONTROL DATA #1 IOP RS-422 RX (H)	-37 (24) S-T-S (GND, GND)	59J1-m, C190J1A-37, E190J1A-37
	SPARE CARD RESERVED	-38	
	SPARE CARD RESERVED	-39	
(I)	MLS #2 A-429 RCVR #22 (H)	-40 (24) S-T-S	FIGURE 8-2
(I)	MLS #2 A-429 RCVR #22 (L)	-41 (24) S-T-S (GND, GND)	
(I)	DU #2 WRAPAROUND A-429 RCVR #10 (H)	-42 (24) S-T-S	131J1-66, C190J1A-42, E190J1A-42
(I)	DU #2 WRAPAROUND A-429 RCVR #10 (L)	190J1A-43 (24) S-T-S (GND, GND)	131J1-79, C190J1A-43, E190J1A-43

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 1 (cont)
IC-800

IO BP	Function	Connector Pin	Connects To
(I)	SPARE FWC DISC IN (GND/OPEN)	190J1A-44	
(O)	FMS DATA LOADER DATA OUT (H)	-45 (24) S-T-S	123J1-H, C190J1A-45, E190J1A-45
(O)	FMS RS-422 TX (L)	-46 (24) S-T-S (GND)	123J1-G, C190J1A-46, E190J1A-46
(B)	FMS DATA LOADER RS-232 TX	-47 (24) S-T-S	FIGURE 8-3
(B)	FMS DATA LOADER RS-232 RX	-48 (24) S-T-S	FIGURE 8-3
(B)	BC/DL RS-232 COMMON	-96 (24) S-T-S (GND)	FIGURE 8-3
(I)	DISPLAY CONTROL #1 (L)	-49 (24) S-T-S	115J1-5
(I)	IOP RS-422 RX (H)	-50 (24) S-T-S (GND)	115J1-4
	SPARE CARD RESERVED	-51	
	SPARE CARD RESERVED	-52	
(I)	V/L #2 (H)	-53 (24) S-T-S	FIGURE 8-2
(I)	A-429 RCVR #21 (L)	-54 (24) S-T-S (GND)	FIGURE 8-2
(I)	SPARE (H)	-55	
(I)	IOP RS-422 RX (L)	-56	
(I)	IAC IDENT 1 (GND/OPEN)	-57	
(O)	SPARE (H)	-58	
(O)	IOP RS-422 TX (L)	-59	
(I)	IAC IDENT 0 (GND/OPEN)	-60	
(I)	WX CONTROL DATA #2 IOP RS-422 RX (H)	-61 (24) S-T-S	59J1-e, C190J1A-61, E190J1A-61
(I)	(L)	-62 (24) S-T-S (GND)	59J1-f, C190J1A-62, E190J1A-62
(I)	FMS DATA LOADER DATA IN (H)	-63 (24) S-T-S	123J1-T, C190J1A-63, E190J1A-63
(I)	FMS RS-422 RX (L)	190J1A-64 (24) S-T-S (GND)	123J1-S, C190J1A-64, E190J1A-64

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 1 (cont)
IC-800

IO BP	Function	Connector Pin		Connects To
(I)	FMS DATA LOADER CTS IN (H)	190J1A-65		
(I)	FMS RS-422 RX (L)	-66		
(I)	ADF #2 (H)	-67	(24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #19 (L)	-68	(24)----------S-T-S---- GND└┘ └─GND	FIGURE 8-2
(I)	HEAD UP DISPLAY (H)	-69	(24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #8 (L)	-70	(24)----------S-T-S---- GND└┘ └─GND	FIGURE 8-2
	FGC RESERVED	-71		
(I)	SPARE FGC DISC IN (GND/OPEN)	-72		
(I)	SPARE FWC DISC IN (GND/OPEN)	-73		
(I)	SPARE FWC DISC IN (GND/OPEN)	-74		
(I)	SPARE FWC DISC IN (GND/OPEN)	-75		
(I)	SPARE FWC DISC IN (GND/OPEN)	-76		
		-77	SEE 190J1A-6	
	BC RESERVED	-78		
(I)	SPARE FGC DISC IN (28V/OPEN)	-79		
(I)	DME #2 (H)	-80	(24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #20 (L)	-81	(24)----------S-T-S---- GND└┘ └─GND	FIGURE 8-2
(I)	SPARE FWC DISC IN (28V/OPEN)	-82		
(O)	FMS DATA LOADER DTR OUT (L)	-83		
(O)	FMS RS-422 TX (H)	-84		
	FGC RESERVED	-85		
(I)	SPARE FGC DISC IN (GND/OPEN)	-86		
(I)	FGC AP DISCONNECT (GND/OPEN)	-87	(24)----------	FIGURE 8-11
(I)	TRIM DISCONNNECT (OPEN/GND)	-88	(24)----------	FIGURE 8-9
	FGC RESERVED	190J1A-89		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 1 (cont)
IC-800

IO BP	Function	Connector Pin	Connects To
(I)	CROSS SERVOS OFF IN (28V/OPEN)	190J1A-90 (24)	C190J1D-75
(I)	CROSS SERVO PWR OFF IN (28V/OPEN)	-91 (24)	C190J1D-76
(I)	CROSS CHANNEL SYNC IN (GND/OPEN)	-92 (24)	C190J1C-55
(I)	CROSS AP PWR SENSE IN (28 V/OPEN)	-93 (24)	C190J1C-44
(I)	DU #1 WRAPAROUND A-429 RCVR #9 (H)	-94 (24) S-T-S	130J1-66, C190J1A-94, E190J1A-94
(I)	(L)	-95 (24) S-T-S (GND)	130J1-79, C190J1A-95, E190J1A-95
		-96 SEE 190J1A-6, 190J1A-47	
(O)	FMS DATA LOADER CLOCK OUT (H)	-97 (24) S-T-S	123J1-K, C190J1A-97 E190J1A-97
(O)	FMS RS-422 TX (L)	-98 (24) S-T-S (GND)	123J1-J, C190J1A-98, E190J1A-98
(O)	SPARE (H)	-99 (24) S-T-S	FIGURE 8-2
(O)	A-429 XMTR #6 (L)	-101 (24) S-T-S (GND)	FIGURE 8-2
(I)	GC PANEL BUTTON ARM (GND/OPEN)	-100 (24)	11J1-47
		-101 SEE 190J1A-99	
(I)	YD DISCONNECT (OPEN/GND)	-102 (24)	SIGNAL GROUND
	FGC RESERVED	-103	
(O)	TRIM RATE CMD OUT (H)	-104	
(O)	TRIM RATE CMD OUT (L)	-105	
(I)	CROSS YD PWR SENSE IN (28 V/OPEN)	190J1A-106 (24)	C190J1C-4

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 1 (cont)
IC-800

IO BP	Function	Connector Pin		Connects To
(I)	SPARE FMS DISC IN (GND/OPEN)	19OJ1B-1		
(P)	YD POWER RETURN	-2	(22)	DC POWER GND
(P)	YD POWER RETURN	-3	(22)	
(P)	28 VDC AIRCRAFT (L)	-4		
(P)	RAM BATTERY (H)	-5		
(I)	FWC RESET (GND/OPEN)	-6		
	FGC RESERVED	-7		
(P)	+28V YD SERVO POWER	-8	(22)	FIGURE 8-6
(P)	+28V YD SERVO POWER	-9	(22)	
(I)	PITCH WHEEL #1 (L)	-10	(24) S-T-S	11J1-44, C19OJ1B-10
(I)	PITCH WHEEL #1 (H)	-11	(24) S-T-S (GND)	11J1-43, C19OJ1B-11
(I)	SPARE FMS DISC IN (GND/OPEN)	-12		
(B)	ASCB NO. 2 PRI (H)	-13	S-T-S	FIGURE 8-1
(B)	ASCB NO. 2 PRI (L)	-15	S-T-S (GND)	
	RSB RESERVED	-14		
		-15	SEE 19OJ1B-13	
	RSB RESERVED	-16		
	RSB RESERVED	-17		
	RSB RESERVED	-18		
	RSB RESERVED	-19		
	RSB RESERVED	-20		
	RSB RESERVED	-21		
	RSB RESERVED	-22		
	RSB RESERVED	-23		
	RSB RESERVED	-24		
	RSB RESERVED	-25		
	RSB RESERVED	-26		
(O)	WX 2 RANGE UP OUT (GND/OPEN)	-27	(24)	C61J1-L, C19OJ1B-27, E19OJ1B-27
(O)	WX 2 RANGE DN OUT (GND/OPEN)	-28	(24)	C61J1-N, C19OJ1B-28, E19OJ1B-28
(O)	WX 1 RANGE UP OUT (GND/OPEN)	19OJ1B-29	(24)	61J1-L, C19OJ1B-29, E19OJ1B-29

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 1 (cont)
IC-800

IO BP	Function	Connector Pin		Connects To
(O)	WX 1 RANGE DN OUT (GND/OPEN)	190J1B-30	(24)----------	61J1-N, C190J1B-30, E190J1B-30
(O)	SPARE DIO DISC OUT (28V/OPEN)	-31		
(O)	SPARE DIO DISC OUT (28V/OPEN)	-32		
	RSB RESERVED	-33		
(O)	AP OFF HORN (GND/OPEN)	-34	(24)----------	FIGURE 8-15
	RSB RESERVED	-35		
(I)	DP1 RESET (GND/OPEN)	-36		
(O)	SPARE DIO DISC OUT (GND/OPEN)	-37		
(I)	SPARE DIO DISC IN (GND/OPEN)	-38		
(O)	SPARE DIO DISC OUT (GND/OPEN)	-39		
	RSB RESERVED	-40		
(I)	CAUTION RESET (GND/OPEN)	-41	(24)----------	FIGURE 8-11
(I)	CDU VALID (GND/OPEN)	-42	(24)----------	120J1-i
(I)	SEC RADIO TUNE (GND/OPEN)	-43		
(O)	ALT ALERT HORN (GND/OPEN)	-44	(24)----------	FIGURE 8-15
(I)	WX ON (GND/OPEN)	-45	(24)----------	59J1-U, 61J1-R, C61J1-R, C190J1B-45, E190J1B-45
(O)	WARNING ANNUN (GND/OPEN)	-46		
(I)	DU 2 REV (GND/OPEN)	-47		
(O)	RAD ALT TEST (GND/OPEN)	-48	(24)----------	FIGURE 8-13
(I)	EICAS RIGHT SEL (GND/OPEN)	-49	(24)----------	E135J1-11
(O)	DAU1 REV (GND/OPEN)	-50	(24)----------	FIGURE 8-2
(I)	SG TEST IN (GND/OPEN)	-51	(24)----------	135J1-49, 115J2-15, C115J2-15
(I)	SPARE DIO DISC IN (GND/OPEN)	-52		
	RSB RESERVED	-53		
	BC RESERVED	-54		
	BC RESERVED	-55		
	BC RESERVED	-56		
(I)	BC IDENT 2 (GND/OPEN)	190J1B-57		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 1 (cont)
IC-800

IO BP	Function	Connector Pin		Connects To
	RSB RESERVED	19OJ1B-58		
	SPARE CARD RESERVED	-59		
(I)	SPARE DIO DISC IN (GND/OPEN)	-60		
(I)	SPARE DIO DISC IN (GND/OPEN)	-61		
(I)	SPARE DIO DISC IN (GND/OPEN)	-62		
(I)	SPARE DIO DISC IN (GND/OPEN)	-63		
(I)	SPARE DIO DISC IN (GND/OPEN)	-64		
(I)	SPARE DIO DISC IN (GND/OPEN)	-65		
	FGC RESERVED	-66		
(O)	IAC OVERHEAT (GND/OPEN)	-67	(24)----------	19OJ1D-43, C19OJ1D-43, E19OJ1D-43
(I)	PRI RADIO TUNE (GND/OPEN)	-68		
(I)	SPARE DIO DISC IN (28V/OPEN)	-69		
(B)	RSB PRIMARY (H)	-70		
(B)	RSB PRIMARY (L)	-71		
(I)	SPARE FWC DISC IN (28V/OPEN)	-72		
	RSB RESERVED	-73		
	RSB RESERVED	-74		
(O)	AWP MASTER OUT (GND/OPEN)	-75		
(O)	AURAL WARNING A (H)	-76		
(O)	AURAL WARNING A (L)	-77		
	SPARE CARD RESERVED	-78		
	SPARE CARD RESERVED	-79		
(I)	FMS INITIATE RECEIVE (GND/OPEN)	-80		
(I)	FMS INITIATE TRANSFER (GND/OPEN)	-81		
(O)	SPARE DIO DISC OUT (GND/OPEN)	-82		
(O)	SPARE DIO DISC OUT (GND/OPEN)	19OJ1B-83		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 1 (cont)
IC-800

IO BP	Function	Connector Pin	Connects To
(I)	SPARE DIO DISC IN (GND/OPEN)	190J1B-84	
(I)	SPARE DIO DISC IN (GND/OPEN)	-85	
(I)	RESERVED (CROSS-SIDE AWP MASTER) (GND/OPEN)	-86	
(I)	PILOT STICKSHAKER (28V/OPEN)	-87 (24)----------	FIGURE 8-12
(I)	SPARE DIO DISC IN (28V/OPEN)	-88	
(I)	RSB RESET (GND/OPEN)	-89	
(I)	DP2 RESET (GND/OPEN)	-90	
(O)	RESERVED (MASTER WARNING HORN) (GND/OPEN)	-91	
	SPARE CARD RESERVED	-92	
	SPARE CARD RESERVED	-93	
(O)	CONFIG MODULE 5V POWER	-94 (24)----------S-T-S----	199J1-1
(O)	CONFIG MODULE RETURN	-95 (24)----------S-T-S----	199J1-2
(I)	CONFIG MODULE DATA RX	-96 (24)----------S-T-S----	199J1-3
		GND┘ └NC	
(I)	SPARE DIO DISC IN (GND/OPEN)	-97	
(I)	RESERVED (WARNING RESET) (GND/OPEN)	-98	
(I)	RESERVED (ON-SIDE AWP MASTER) (GND/OPEN)	-99	
(I)	SPARE DIO DISC IN (28V/OPEN)	-100	
(I)	CROSS +28V YD CLUTCH IN	-101	
(I)	AT DISCONNECT (GND/OPEN)	-102 (24)----------	FIGURE 8-11
(I)	FGC RESET (GND/OPEN)	-103	
(B)	FMS RS-232 COMMON	-104 (24)----------S-T-S----	FIGURE 8-3
(B)	FMS RS-232 DATA RX	-105 (24)----------S-T-S----	
(B)	FMS RS-232 DATA TX	190J1B-106 (24)----------S-T-S----	
		GND┘ └GND	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 1 (cont)
IC-800

IO BP	Function	Connector Pin		Connects To
(O)	AIL SERVO DRIVE (CCW DRUM ROTATION) (H)	190J1C-1	(20)----------S-T-S----	12J1-A, C190J1C-1
(O)	(L)	-2	(20)----------S-T-S---- GND GND	12J1-B, C190J1C-2
(O)	ELEV SERVO DRIVE (CCW DRUM ROTATION) (H)	-3	(20)----------S-T-S----	13J1-A, C190J1C-3
(O)	(L)	-5	(20)----------S-T-S---- GND GND	13J1-B, C190J1C-5
(O)	CROSS YD PWR SENSE OUT (28 V/OPEN)	-4	(24)----------	C190J1A-106
		-5	SEE 190J1C-3	
(O)	TRIM UP (28V/GND)	-6	(22)----------	FIGURE 8-9
(O)	SPARE (H)	-7		
(O)	A-429 XMTR #5 (L)	-9		
(O)	TRIM DN (28V/GND)	-8	(22)----------	FIGURE 8-9
		-9	SEE 190J1C-7	
(O)	+28V YD BRAKE OUT	-10	(22)----------S---S---- GND GND	14J1-E, C190J1C-10, 190J1D-91, C190J1D-91, E190J1D-91
	IOP RESERVED	-11		
(O)	+28V AP CLUTCH OUT	-12	(20)----------S---S---- GND GND	12J1-G, 13J1-G, C190J1C-12, 190J1D-89, C190J1D-89, E190J1D-89
(O)	YD SERVO DRIVE (L)	-13	(20)----------S-T-S----	14J1-B, C190J1C-13
(O)	YD SERVO DRIVE (H)	-26	(20)----------S-T-S---- GND GND	14J1-A, C190J1C-26
(O)	GENERAL BUS #2 (H)	-14	(24)----------S-T-S----	FIGURE 8-2
(O)	A-429 XMTR #3 (L)	190J1C-15	(24)----------S-T-S---- GND GND	FIGURE 8-2

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 1 (cont)
IC-800

IO BP	Function	Connector Pin	Connects To
(I)	LRN #3	(H) 190J1C-16 (24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #16	(L) -17 (24)----------S-T-S----	
		GND--┘ └--GND	
(I)	AFIS	(H) -18 (24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #14	(L) -19 (24)----------S-T-S----	
		GND--┘ └--GND	
(I)	DU #5 WRAPAROUND	(H) -20 (24)----------S-T-S----	C130J1-66,
	A-429 RCVR #13		C190J1C-20,
			E190J1C-20
(I)		(L) -21 (24)----------S-T-S----	C130J1-79,
		GND--┘ └--GND	C190J1C-21,
			E190J1C-21
(I)	SPARE FGC DISC IN (GND/OPEN)	-22	
(I)	SPARE FGC DISC IN (GND/OPEN)	-23	
(I)	SPARE	(L) -24 (24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #18	(H) -25 (24)----------S-T-S----	
		GND--┘ └--GND	
		-26 SEE 190J1C-13	
	SPARE CARD RESERVED	-27	
(I)	MLS #1	(H) -28 (24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #4	(L) -29 (24)----------S-T-S----	
		GND--┘ └--GND	
(I)	EICAS LEFT SEL (GND/OPEN)	-30 (24)----------	E135J1-7
(I)	PFD 1 OFF (GND/OPEN)	-31 (24)----------	135J1-11
(O)	AURAL WARNING OUT B (H)	-32	
(O)	AURAL WARNING OUT B (L)	-33	
	RSB RESERVED	-34	
	RSB RESERVED	-35	
(B)	RSB SECONDARY (H)	-36	
(B)	RSB SECONDARY (L)	-37	
(I)	DISPLAY CONTROL #2	(H) -38 (24)----------S-T-S----	C115J1-7,
	IOP RS-422 RX		E190J1C-38
(I)		(L) -39 (24)----------S-T-S----	C115J1-8,
		GND--┘ └--GND	E190J1C-39
	FGC RESERVED	-40	
(I)	SPARE FGC DISC IN (28V/OPEN)	190J1C-41	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 1 (cont)
IC-800

IO BP	Function	Connector Pin		Connects To
	FGC RESERVED	190J1C-42		
	FGC RESERVED	-43		
(O)	CROSS AP PWR SENSE OUT (28 V/OPEN)	-44	(24)----------	C190J1A-93
	FGC RESERVED	-45		
	FGC RESERVED	-46		
	FGC RESERVED	-47		
(O)	FMS CDU DTR OUT (L)	-48	(24)----------S-T-S----	120J1-V
(O)	FMS RS-422 TX (H)	-49	(24)----------S-T-S----	120J1-U
			GND┘ └GND	
	FGC RESERVED	-50		
(O)	FMS CDU DATA OUT (L)	-51	(24)----------S-T-S----	120J1-T
(O)	FMS RS-422 TX (H)	-52	(24)----------S-T-S----	120J1-S
			GND┘ └GND	
	SPARE CARD RESERVED	-53		
	SPARE CARD RESERVED	-54		
(O)	CROSS-CHANNEL SYNC OUT (GND/OPEN)	-55	(24)----------	C190J1A-92
(I)	SPARE FGC DISC IN (28V/OPEN)	-56		
	FGC RESERVED	-57		
(I)	FMS CDU CTS IN (L)	-58	(24)----------S-T-S----	120J1-R
(I)	FMS RS-422 RX (H)	-59	(24)----------S-T-S----	120J1-P
			GND┘ └GND	
(I)	SPARE FGC ANALOG IN (H)	-60		
(I)	SPARE FGC ANALOG IN (L)	-61		
	FGC RESERVED	-62		
(O)	FMS CDU CLOCK OUT (L)	-63	(24)----------S-T-S----	120J1-X
(O)	FMS RS-422 TX (H)	-64	(24)----------S-T-S----	120J1-W
			GND┘ └GND	
(I)	TCAS (H)	-65	(24)----------S-T-S----┐	FIGURE 8-2
(I)	A-429 RCVR #6 (L)	-66	(24)----------S-T-S----┘	
			GND┘ └GND	
	SPARE CARD RESERVED	-67		
(O)	SPARE FMS DISC OUT (GND/OPEN)	190J1C-68		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 1 (cont)
IC-800

IO BP	Function	Connector Pin		Connects To
(O)	CDU SYNC OUT (GND/OPEN)	190J1C-69	(24)----------	C190J1A-19, E190J1A-19
(O)	TAG SYNC OUT (GND/OPEN)	-70	(24)----------	C190J1A-17, E190J1A-17
(I)	FMS CDU DATA IN (L)	-71	(24)----------S-T-S----	120J1-N
(I)	FMS RS-422 RX (H)	-72	(24)----------S-T-S---- GND GND	120J1-M
	SPARE CARD RESERVED	-73		
	SPARE CARD RESERVED	-74		
	SPARE CARD RESERVED	-75		
(I)	LIGHTNING SENSOR (H)	-76	(24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #7 (L)	-77	(24)----------S-T-S---- GND GND	
(O)	SPARE (H)	-78	(24)----------S-T-S----	FIGURE 8-2
(O)	A-429 XMTR #2 (L)	-79	(24)----------S-T-S---- GND GND	
	SPARE CARD RESERVED	-80		
	SPARE CARD RESERVED	-81		
(O)	SPARE FMS DISC OUT (GND/OPEN)	-82		
(O)	SPARE FMS DISC OUT (GND/OPEN)	-83		
(O)	SPARE FMS DISC OUT (GND/OPEN)	-84		
(O)	DU HDLC TX #1 (H)	-85	----------S-T-S----	FIGURE 8-14
(O)	DU HDLC TX #1 (L)	-86	----------S-T-S---- GND GND	
	SPARE CARD RESERVED	-87		
	SPARE CARD RESERVED	-88		
	SPARE CARD RESERVED	-89		
	SPARE CARD RESERVED	-90		
	SPARE CARD RESERVED	-91		
	SPARE CARD RESERVED	-92		
(I)	SIGNAL GROUND	-93	(24)----------	SIGNAL GND
	SPARE CARD RESERVED	-94		
(O)	SPARE (H)	-95		
(O)	IOP RS-422 TX (L)	-96		
(I)	LRN #1 (H)	-97	(24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #5 (L)	190J1C-98	(24)----------S-T-S---- GND GND	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 1 (cont)
IC-800

IO BP	Function	Connector Pin		Connects To
(I)	V/L #1	(L) 190J1C-99	(24)	FIGURE 8-2
(I)	A-429 RCVR #3	(H) -100	(24)	
			GND	GND
(I)	DME #1	(L) -101	(24)	FIGURE 8-2
(I)	A-429 RCVR #2	(H) -102	(24)	
			GND	GND
(I)	ADF #1	(L) -103	(24)	FIGURE 8-2
(I)	A-429 RCVR #1	(H) -104	(24)	
			GND	GND
	SPARE CARD RESERVED	-105		
(I)	SIGNAL GROUND	190J1C-106	(24)	SIGNAL GND

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 1 (cont)
IC-800

IO BP	Function	Connector Pin		Connects To
(I)	RESERVED (LX ON) (OPEN/GND)	190J1D-1		
(I)	IAC 3 OVERHEAT (GND/OPEN)	-2	(24)----------	C190J1D-2, E190J1D-2, E190J1B-67
	POWER SUPPLY RESERVED	-3		
(I)	FMS DATA LDR CONNECTED (GND/OPEN)	-4	(24)----------	123J1-E
	POWER SUPPLY RESERVED	-5		
(P)	+28V IAC POWER	-6	(20)----------	FIGURE 8-6
(P)	+28V IAC POWER	-7	(20)----------	
(P)	+28V IAC POWER	-8	(20)----------	
	FGC RESERVED	-9		
(P)	IAC POWER RETURN	-10	(20)----------	DC POWER GND
(P)	IAC POWER RETURN	-11	(20)----------	
(P)	IAC POWER RETURN	-12	(20)----------	
	FGC RESERVED	-13		
(O)	GC PANEL ANN VALID (28V/OPEN)	-14	(24)----------	11J1-57
(I)	SPARE FGC DISC IN (GND/OPEN)	-15		
(I)	YD ACTUATOR EXTENDED	-16	(24)-T----------	14J1-C, C190J1D-16
(I)	YD ACTUATOR RETRACTED	-17	(24)-T----------	14J1-D, C190J1D-17
	FGC RESERVED	-18		
	FGC RESERVED	-19		
(I)	PITCH WHEEL #2 (L)	-20		
(I)	PITCH WHEEL #2 (H)	-21		
(O)	NON-SWITCHED LVDT/RVDT EXCITATION (H)	-22		
(O)	NON-SWITCHED LVDT/RVDT EXCITATION (L)	-23		
(I)	TRIM POSITION (H)	-24		
(I)	TRIM POSITION (L)	190J1D-25		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 1 (cont)
IC-800

IO BP	Function	Connector Pin	Connects To
	FGC RESERVED	190J1D-26	
(O)	DAU2 REV (GND/OPEN)	-27 (24)----------	FIGURE 8-2
(O)	CAUTION ANNUN (GND/OPEN)	-28	
(I)	SG 2 REV (GND/OPEN)	-29 (24)----------	C135J1-41
(I)	SPARE DIO DISC IN (GND/OPEN)	-30	
(I)	PFD 2 OFF (GND/OPEN)	-31 (24)----------	C135J1-9
(I)	SPARE DIO DISC IN (GND/OPEN)	-32	
(I)	FWC AP DISCONNECT (GND/OPEN)	-33 (24)----------	FIGURE 8-11
(O)	RESERVED (FWC DOWNLOAD IN PROGRESS) (28V/OPEN)	-34	
(I)	SPARE DIO DISC IN (GND/OPEN)	-35	
(O)	RESERVED (FWC ERASE IN PROGRESS) (28V/OPEN)	-36	
(I)	TRUE REF SELECT (GND/OPEN)	-37	
(I)	SPARE FGC RVDT (L)	-38	
(I)	ANALOG IN (H)	-39	
	FGC RESERVED	-40	
(I)	PILOT EVENT MKR (GND/OPEN)	-41 (24)----------	FIGURE 8-16
(I)	SPARE DIO DISC IN (GND/OPEN)	-42	
(I)	IAC 1 OVERHEAT (GND/OPEN)	-43 (24)----------	190J1B-67, C190J1D-43, E190J1D-43
(O)	CHECK PFD ANNUN (GND/OPEN)	-44 (24)----------	FIGURE 8-15
(I)	SG 1 REV (GND/OPEN)	-45 (24)----------	135J1-41
(I)	CHASSIS GROUND	190J1D-46	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 1 (cont)
IC-800

IO BP	Function	Connector Pin		Connects To
(O)	SPARE DIO DISC OUT (28V/OPEN)	190J1D-47		
(I)	IAC 2 OVERHEAT (GND/OPEN)	-48	(24)----------	C190J1B-67, C190J1D-48, E190J1D-48
(O)	SPARE DIO DISC OUT (28V/OPEN)	-49		
(O)	GC PANEL STROBE OUT (L)	-50	(24)----------S-T-S----	11J1-6
(O)	GC PANEL STROBE OUT (H)	-51	(24)----------S-T-S---- GND └┘ └GND	11J1-5
	FGC RESERVED	-52		
(I)	SG 3 REV (GND/OPEN)	-53	(24)----------	E135J1-44
(I)	YD LVDT FEEDBACK (L)	-54	(24)----------S-T-S----	14J1-M, C190J1D-54
(I)	YD LVDT FEEDBACK (H)	-55	(24)----------S-T-S---- GND └┘ └GND	14J1-N, C190J1D-55
(I)	SPARE FGC RVDT (L)	-56		
(I)	ANALOG IN (H)	-57		
(I)	AILERON TACH (L)	-58	(24)----------S-T-S----	12J1-N, C190J1D-58
(I)	AILERON TACH (H)	-59	(24)----------S-T-S---- GND └┘ └GND	12J1-L, C190J1D-59
(I)	ELEVATOR TACH (L)	-60	(24)----------S-T-S----	13J1-N, C190J1D-60
(I)	ELEVATOR TACH (H)	-61	(24)----------S-T-S---- GND └┘ └GND	13J1-L, C190J1D-61
(I)	GC PANEL BUTTON DATA (L)	-62	(24)----------S-T-S----	11J1-8
(I)	GC PANEL BUTTON DATA (H)	-63	(24)----------S-T-S---- GND └┘ └GND	11J1-7
(I)	AWP ENABLE (28V/OPEN)	-64		
(I)	SPARE FGC DISC IN (28V/OPEN)	-65		
(I)	BC ID 1 (GND/OPEN)	190J1D-66	(24)----------	SIGNAL GND

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 1 (cont)
IC-800

IO BP	Function	Connector Pin		Connects To
(O)	SPARE FMS DISC OUT (GND/OPEN)	190J1D-67		
(O)	FMS VTA HORN (GND/OPEN)	-68	(24)----------	FIGURE 8-15
(O)	SWITCHED LVDT/RVDT EXCITATION (L)	-69	(24)----------S-T-S----	14J1-V, C190J1D-69
(O)	SWITCHED LVDT/RVDT EXCITATION (H)	-70	(24)----------S-T-S---- GND└┘ └─GND	14J1-U, C190J1D-70
(I)	RESERVED [HDLC RX #1 (H)]	-71		
(I)	RESERVED [HDLC RX #1 (L)]	-72		
	FGC RESERVED	-73		
	FGC RESERVED	-74		
(O)	CROSS SERVOS OFF (28V/OPEN)	-75	(24)----------	C190J1A-90
(O)	CROSS SERVOS PWR OFF (28V/OPEN)	-76	(24)----------	C190J1A-91
(I)	AIL RVDT SURFACE POS (L)	-77		
(I)	AIL RVDT SURFACE POS (H)	-78		
(I)	BC ID 3 (GND/OPEN)	-79		
(B)	IOP RS-232 COMMON	-80	(24)----------S-T-S----	FIGURE 8-3
(B)	IOP RS-232 DATA XMTR	-81	(24)----------S-T-S----	
(B)	IOP RS-232 DATA RCVR	-82	(24)----------S-T-S---- GND└┘ └─GND	
(I)	RESERVED [HDLC RX #2 (H)]	-83		
(I)	RESERVED [HDLC RX #2 (L)]	-84		
(O)	RESERVED (SBY ENG ENABLE) (GND/OPEN)	-85		
(I)	SPARE DIO DISC IN (GND/OPEN)	-86		
(I)	SPARE DIO DISC IN (GND/OPEN)	-87		
(I)	RESERVED (FWC MEM ERASE) (GND/OPEN)	-88		
(I)	+28V AP CLUTCH IN (28V/OPEN)	190J1D-89	(20)----------S---S---- GND└┘ └─GND	12J1-G, 13J1-G, 190J1C-12, C190J1C-12, C190J1D-89, E190J1D-89

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 1 (cont)
IC-800

IO BP	Function	Connector Pin	Connects To
(I)	RESERVED (FWC DOWNLOAD INIT) (GND/OPEN)	190J1D-90	
(I)	+28V YD BRAKE IN (28V/OPEN)	-91 (22)----------S---S---- GND┘ └GND	14J1-E, 190J1C-10, C190J1C-10, C190J1D-91, E190J1D-91
(I)	SPARE DIO DISC IN (GND/OPEN)	-92	
(I)	COPILOT STICKSHAKER (28V/OPEN)	-93 (24)----------	FIGURE 8-12
(O)	GC PANEL POWER RETURN	-94 (22)----------S-T-S----	11J1-18
(O)	5V GC PANEL POWER	-95 (22)----------S-T-S---- GND┘ └GND	11J1-17
(O)	GC PANEL CLOCK (L)	-96 (24)----------S-T-S----	11J1-4
(O)	GC PANEL CLOCK (H)	-97 (24)----------S-T-S---- GND┘ └GND	11J1-3
(O)	GC PANEL ANNUN DATA (L)	-98 (24)----------S-T-S----	11J1-2
(O)	GC PANEL ANNUN DATA (H)	-99 (24)----------S-T-S---- GND┘ └GND	11J1-1
(O)	TRIM ARM UP OUT (28V/OPEN)	-100 (22)----------	FIGURE 8-9
(I)	FMS RESET (GND/OPEN)	-101	
(I)	SPARE DIO DISC IN (GND/OPEN)	-102	
(I)	WEIGHT ON WHEELS (GND/OPEN)	-103 (24)----------	FIGURE 8-5
(B)	ASCB NO. 1 PRI (H)	-104 ----------S-T-S----┐	FIGURE 8-1
(B)	ASCB NO. 1 PRI (L)	-106 ----------S-T-S----┘ GND┘ └GND	
(O)	TRIM ARM DN OUT (28V/OPEN)	-105 (22)----------	FIGURE 8-9
		190J1D-106 SEE 190J1D-104	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

IAC INSTALLATION MODULE NO. 1
IM-803

IO BP	Function	Connector Pin		Connects To
(P)	+5 VDC POWER	199J1-1	(24)----------S-T-S----	190J1B-94
(P)	+5 VDC POWER RETURN	-2	(24)----------S-T-S----	190J1B-95
(O)	DATA XMTR	199J1-3	(24)----------S-T-S----	190J1B-96
			NC┘ └GND	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 3
IC-800

IO BP	Function	Connector Pin		Connects To
(I)	SIGNAL GROUND	E190J1A-1	(22)----------	SIGNAL GND
(O)	+28V ELEV TRIM CLUTCH OUT	-2		
(I)	IAC IDENT 2 (GND/OPEN)	-3		
	FGC RESERVED	-4		
(B)	ASCB NO. 1 BU (H)	-5	----------S-T-S----	FIGURE 8-1
(B)	ASCB NO. 1 BU (L)	-7	----------S-T-S----	
			GND┘ └GND	
(B)	BC RS-232 DATA RCVR	-6	(24)----------S-T-S----	FIGURE 8-3
(B)	BC RS-232 DATA XMTR	-77	(24)----------S-T-S----	
(B)	BC/DL RS-232 COMMON	-96	(24)----------S-T-S----	
			GND┘ └GND	
		-7	SEE E190J1A-5	
(P)	28 VDC AT SERVO PWR RTN	-8	(22)----------	DC POWER GND
(P)	28 VDC AT SERVO PWR RTN	-9	(22)----------	DC POWER GND
	BC RESERVED	-10		
(P)	28 VDC AT SERVO POWER	-11	(22)----------	FIGURE 8-6
(P)	28 VDC AT SERVO POWER	-12	(22)----------	
(O)	SPARE (H)	-13		
(O)	IOP RS-422 TX (L)	-14		
(I)	DU #4 WRAPAROUND (L)	-15	(24)----------S-T-S----	C131J1-79, 190J1A-15, C190J1A-15
	A-429 RCVR #12			
(I)	(H)	-16	(24)----------S-T-S----	C131J1-66, 190J1A-16 C190J1A-16
			GND┘ └GND	
(I)	TAG SYNC IN #1 (OPEN/GND)	-17	(24)----------	190J1C-70, C190J1A-17
(I)	TAG SYNC IN #2 (OPEN/GND)	-18	(24)----------	190J1A-17, C190J1C-70
(I)	CDU SYNC IN #1 (OPEN/GND)	-19	(24)----------	190J1C-69, C190J1A-19
(O)	GENERAL BUS #1 (H)	-20	(24)----------S-T-S----	FIGURE 8-2
(O)	A-429 XMTR #1 (L)	E190J1A-21	(24)----------S-T-S----	
			GND┘ └GND	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 3 (cont)
IC-800

IO BP	Function		Connector Pin		Connects To
	SPARE CARD RESERVED		E190J1A-22		
	SPARE CARD RESERVED		-23		
(O)	DU BUS TX #2 (H)		-24	S-T-S	FIGURE 8-14
(O)	DU BUS TX #2 (L)		-25	S-T-S (GND)	
(I)	LRN #2	(H)	-26 (24)	S-T-S	FIGURE 8-2
(I)	A-429 RCVR #15	(L)	-27 (24)	S-T-S (GND)	
(I)	DU #3 WRAPAROUND A-429 RCVR #11	(L)	-28 (24)	S-T-S	132J1-79, 190J1A-28, C190J1A-28
(I)		(H)	-29 (24)	S-T-S (GND)	132J1-66, 190J1A-29, C190J1A-29
(I)	SPARE	(H)	-30		
(I)	IOP RS-422 RX	(L)	-31		
(I)	CDU SYNC IN #2 (GND/OPEN)		-32 (24)		190J1A-19, C190J1C-69
(I)	SPARE FMS DISC IN (GND/OPEN)		-33		
(I)	SPARE FMS DISC IN (GND/OPEN)		-34		
(I)	SPARE FWC DISC IN (GND/OPEN)		-35		
(I)	WX CONTROL DATA #1 IOP RS-422 RX	(L)	-36 (24)	S-T-S	59J1-n, 190J1A-36, C190J1A-36
(I)		(H)	-37 (24)	S-T-S (GND)	59J1-m, 190J1A-37, C190J1A-37
	SPARE CARD RESERVED		-38		
	SPARE CARD RESERVED		-39		
(I)	MLS #2	(H)	-40 (24)	S-T-S	FIGURE 8-2
(I)	A-429 RCVR #22	(L)	-41 (24)	S-T-S (GND)	
(I)	DU #2 WRAPAROUND A-429 RCVR #10	(H)	-42 (24)	S-T-S	131J1-66, 190J1A-42, C190J1A-42
(I)		(L)	E190J1A-43 (24)	S-T-S (GND)	131J1-79, 190J1A-43, C190J1A-43

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 3 (cont)
IC-800

IO BP	Function	Connector Pin	Connects To
(I)	SPARE FWC DISC IN (GND/OPEN)	E190J1A-44	
(O)	FMS DATA LOADER DATA OUT (H)	-45 (24) S-T-S	123J1-H, 190J1A-45, C190J1A-45
(O)	FMS RS-422 TX (L)	-46 (24) S-T-S (GND)	123J1-G, 190J1A-46, C190J1A-46
(B)	FMS DATA LOADER RS-232 TX	-47 (24) S-T-S	FIGURE 8-3
(B)	FMS DATA LOADER RS-232 RX	-48 (24) S-T-S	FIGURE 8-3
(B)	BC/DL RS-232 COMMON	-96 (24) S-T-S (GND)	FIGURE 8-3
(I)	DISPLAY CONTROL #1 (L)	-49 (24) S-T-S	115J1-8, C190J1A-49
(I)	IOP RS-422 RX (H)	-50 (24) S-T-S (GND)	115J1-7, C190J1A-50
	SPARE CARD RESERVED	-51	
	SPARE CARD RESERVED	-52	
(I)	V/L #2 (H)	-53 (24) S-T-S	FIGURE 8-2
(I)	A-429 RCVR #21 (L)	-54 (24) S-T-S (GND)	FIGURE 8-2
(I)	SPARE (H)	-55	
(I)	IOP RS-422 RX (L)	-56	
(I)	IAC IDENT 1 (GND/OPEN)	-57	
(O)	SPARE (H)	-58	
(O)	IOP RS-422 TX (L)	-59	
(I)	IAC IDENT 0 (GND/OPEN)	-60 (24)	SIGNAL GND
(I)	WX CONTROL DATA #2 IOP RS-422 RX (H)	-61 (24) S-T-S	59J1-e, 190J1A-61, C190J1A-61
(I)	(L)	-62 (24) S-T-S (GND)	59J1-f, 190J1A-62, C190J1A-62
(I)	FMS DATA LOADER DATA IN (H)	-63 (24) S-T-S	123J1-T, 190J1A-63, C190J1A-63
(I)	FMS RS-422 RX (L)	E190J1A-64 (24) S-T-S (GND)	123J1-S, 190J1A-64, C190J1A-64

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 3 (cont)
IC-800

IO BP	Function		Connector Pin		Connects To
(I)	FMS DATA LOADER CTS IN	(H)	E190J1A-65		
(I)	FMS RS-422 RX	(L)	-66		
(I)	ADF #2	(H)	-67	(24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #19	(L)	-68	(24)----------S-T-S---- GND└┘ └─GND	FIGURE 8-2
(I)	HEAD UP DISPLAY	(H)	-69	(24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #8	(L)	-70	(24)----------S-T-S---- GND└┘ └─GND	FIGURE 8-2
	FGC RESERVED		-71		
(I)	MANUAL TRIM SELECT		-72		
(I)	SPARE FWC DISC IN (GND/OPEN)		-73		
(I)	SPARE FWC DISC IN (GND/OPEN)		-74		
(I)	SPARE FWC DISC IN (GND/OPEN)		-75		
(I)	SPARE FWC DISC IN (GND/OPEN)		-76		
			-77	SEE E190J1A-6	
	BC RESERVED		-78		
(I)	SPARE FGC DISC IN (28V/OPEN)		-79		
(I)	DME #2	(H)	-80	(24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #20	(L)	-81	(24)----------S-T-S---- GND└┘ └─GND	FIGURE 8-2
(I)	SPARE FWC DISC IN (28V/OPEN)		-82		
(O)	FMS DATA LOADER DTR OUT	(L)	-83		
(O)	FMS RS-422 TX	(H)	-84		
	FGC RESERVED		-85		
(I)	SPARE FGC DISC IN (GND/OPEN)		-86		
(I)	AT DISCONNECT A (OPEN/GND)		-87	(24)----------	FIGURE 8-11
(I)	TRIM DISCONNNECT (OPEN/GND)		-88		
	FGC RESERVED		E190J1A-89		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 3 (cont)
IC-800

IO BP	Function	Connector Pin	Connects To
(I)	CROSS SERVOS OFF IN (28V/OPEN)	E190J1A-90	
(I)	CROSS SERVO PWR OFF IN (28V/OPEN)	-91	
(I)	CROSS CHANNEL SYNC IN (GND/OPEN)	-92	
(I)	CROSS AP PWR SENSE IN (28 V/OPEN)	-93	
(I)	DU #1 WRAPAROUND A-429 RCVR #9 (H)	-94 (24)----------S-T-S----	130J1-66, 190J1A-94, C190J1A-94
(I)	(L)	-95 (24)----------S-T-S---- GND └GND	130J1-79, 190J1A-95, C190J1A-95
		-96 SEE E190J1A-6, E190J1A-47	
(O)	FMS DATA LOADER CLOCK OUT (H)	-97 (24)----------S-T-S---	123J1-K, 190J1A-97, C190J1A-97
(O)	FMS RS-422 TX (L)	-98 (24)----------S-T-S--- GND └GND	123J1-J, 190J1A-98, C190J1A-98
(O)	SPARE (H)	-99 (24)----------S-T-S----	FIGURE 8-2
(O)	A-429 XMTR #6 (L)	-101 (24)----------S-T-S---- GND └GND	FIGURE 8-2
(I)	GC PANEL BUTTON ARM (GND/OPEN)	-100	
		-101 SEE E190J1A-99	
(I)	AT DISCONNECT B (OPEN/GND)	-102 (24)----------	FIGURE 8-11
	FGC RESERVED	-103	
(O)	TRIM RATE CMD OUT (H)	-104	
(O)	TRIM RATE CMD OUT (L)	-105	
(I)	CROSS YD PWR SENSE IN (28 V/OPEN)	E190J1A-106	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 3 (cont)
IC-800

IO BP	Function	Connector Pin		Connects To
(I)	SPARE FMS DISC IN (GND/OPEN)	E19OJ1B-1		
(P)	AT POWER RETURN	-2	(22)----------	DC POWER GND
(P)	AT POWER RETURN	-3	(22)----------	
(P)	28 VDC AIRCRAFT (L)	-4		
(P)	RAM BATTERY (H)	-5		
(I)	FWC RESET (GND/OPEN)	-6		
	FGC RESERVED	-7		
(P)	+28V AT SERVO POWER	-8	(22)----------	FIGURE 8-6
(P)	+28V AT SERVO POWER	-9	(22)----------	
(I)	PITCH WHEEL #1 (L)	-10		
(I)	PITCH WHEEL #1 (H)	-11		
(I)	SPARE FMS DISC IN (GND/OPEN)	-12		
(B)	ASCB NO. 2 PRI (H)	-13	----------S-T-S----	FIGURE 8-1
(B)	ASCB NO. 2 PRI (L)	-15	----------S-T-S----	
			GND GND	
	RSB RESERVED	-14		
		-15	SEE E19OJ1B-13	
	RSB RESERVED	-16		
	RSB RESERVED	-17		
	RSB RESERVED	-18		
	RSB RESERVED	-19		
	RSB RESERVED	-20		
	RSB RESERVED	-21		
	RSB RESERVED	-22		
	RSB RESERVED	-23		
	RSB RESERVED	-24		
	RSB RESERVED	-25		
	RSB RESERVED	-26		
(O)	WX 2 RANGE UP OUT (GND/OPEN)	-27	(24)----------	C61J1-L, 19OJ1B-27, C19OJ1B-27
(O)	WX 2 RANGE DN OUT (GND/OPEN)	-28	(24)----------	C61J1-N, 19OJ1B-28, C19OJ1B-28
(O)	WX 1 RANGE UP OUT (GND/OPEN)	E19OJ1B-29	(24)----------	61J1-L, 19OJ1B-29, C19OJ1B-29

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 3 (cont)
IC-800

IO BP	Function	Connector Pin		Connects To
(O)	WX 1 RANGE DN OUT (GND/OPEN)	E190J1B-30	(24)----------	61J1-N, 190J1B-30, C190J1B-30
(O)	SPARE DIO DISC OUT (28V/OPEN)	-31		
(O)	SPARE DIO DISC OUT (28V/OPEN)	-32		
	RSB RESERVED	-33		
(O)	AP OFF HORN (GND/OPEN)	-34		
	RSB RESERVED	-35		
(I)	DP1 RESET (GND/OPEN)	-36		
(O)	SPARE DIO DISC OUT (GND/OPEN)	-37		
(I)	SPARE DIO DISC IN (GND/OPEN)	-38		
(O)	SPARE DIO DISC OUT (GND/OPEN)	-39		
	RSB RESERVED	-40		
(I)	CAUTION RESET (GND/OPEN)	-41	(24)----------	FIGURE 8-11
(I)	CDU VALID (GND/OPEN)	-42	(24)----------	E120J1-i
(I)	SEC RADIO TUNE (GND/OPEN)	-43		
(O)	ALT ALERT HORN (GND/OPEN)	-44	(24)----------	FIGURE 8-15
(I)	WX ON (GND/OPEN)	-45	(24)----------	59J1-U, 61J1-R, C61J1-R, 190J1B-45, C190J1B-45
(O)	WARNING ANNUN (GND/OPEN)	-46		
(I)	DU 2 REV (GND/OPEN)	-47		
(O)	RAD ALT TEST (GND/OPEN)	-48	(24)----------	FIGURE 8-13
(I)	EICAS RIGHT SEL (GND/OPEN)	-49	(24)----------	E135J1-10
(O)	DAU1 REV (GND/OPEN)	-50	(24)----------	FIGURE 8-2
(I)	SG TEST IN (GND/OPEN)	-51	(24)----------	E135J1-49, 115J2-17, C115J2-17
(I)	SPARE DIO DISC IN (GND/OPEN)	-52		
	RSB RESERVED	-53		
	BC RESERVED	-54		
	BC RESERVED	-55		
	BC RESERVED	-56		
(I)	BC IDENT 2 (GND/OPEN)	E190J1B-57		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 3 (cont)
IC-800

IO BP	Function	Connector Pin	Connects To
	RSB RESERVED	E190J1B-58	
	SPARE CARD RESERVED	-59	
(I)	SPARE DIO DISC IN (GND/OPEN)	-60	
(I)	SPARE DIO DISC IN (GND/OPEN)	-61	
(I)	SPARE DIO DISC IN (GND/OPEN)	-62	
(I)	SPARE DIO DISC IN (GND/OPEN)	-63	
(I)	SPARE DIO DISC IN (GND/OPEN)	-64	
(I)	SPARE DIO DISC IN (GND/OPEN)	-65	
	FGC RESERVED	-66	
(O)	IAC OVERHEAT (GND/OPEN)	-67 (24)----------	190J1D-2, C190J1D-2, E190J1D-2
(I)	PRI RADIO TUNE (GND/OPEN)	-68	
(I)	SPARE DIO DISC IN (28V/OPEN)	-69	
(B)	RSB PRIMARY (H)	-70	
(B)	RSB PRIMARY (L)	-71	
(I)	SPARE FWC DISC IN (28V/OPEN)	-72	
	RSB RESERVED	-73	
	RSB RESERVED	-74	
(O)	AWP MASTER OUT (GND/OPEN)	-75	
(O)	AURAL WARNING A (H)	-76	
(O)	AURAL WARNING A (L)	-77	
	SPARE CARD RESERVED	-78	
	SPARE CARD RESERVED	-79	
(I)	FMS INITIATE RECEIVE (GND/OPEN)	-80	
(I)	FMS INITIATE TRANSFER (GND/OPEN)	-81	
(O)	SPARE DIO DISC OUT (GND/OPEN)	-82	
(O)	SPARE DIO DISC OUT (GND/OPEN)	E190J1B-83	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 3 (cont)
IC-800

IO BP	Function	Connector Pin	Connects To
(I)	SPARE DIO DISC IN (GND/OPEN)	E190J1B-84	
(I)	SPARE DIO DISC IN (GND/OPEN)	-85	
(I)	RESERVED (CROSS-SIDE AWP MASTER) (GND/OPEN)	-86	
(I)	PILOT STICKSHAKER (28V/OPEN)	-87	
(I)	SPARE DIO DISC IN (28V/OPEN)	-88	
(I)	RSB RESET (GND/OPEN)	-89	
(I)	DP2 RESET (GND/OPEN)	-90	
(O)	RESERVED (MASTER WARNING HORN) (GND/OPEN)	-91	
	SPARE CARD RESERVED	-92	
	SPARE CARD RESERVED	-93	
(O)	CONFIG MODULE 5V POWER	-94 (24)----------S-T-S----	E199J1-1
(O)	CONFIG MODULE RETURN	-95 (24)----------S-T-S----	E199J1-2
(I)	CONFIG MODULE DATA RX	-96 (24)----------S-T-S----	E199J1-3
		GND┘ └NC	
(I)	SPARE DIO DISC IN (GND/OPEN)	-97	
(I)	RESERVED (WARNING RESET) (GND/OPEN)	-98	
(I)	RESERVED (ON-SIDE AWP MASTER) (GND/OPEN)	-99	
(I)	SPARE DIO DISC IN (28V/OPEN)	-100	
(I)	CROSS +28V YD CLUTCH IN	-101	
(I)	AT DISCONNECT (GND/OPEN)	-102 (24)----------	FIGURE 8-11
(I)	FGC RESET (GND/OPEN)	-103	
(B)	FMS RS-232 COMMON	-104 (24)----------S-T-S----	FIGURE 8-3
(B)	FMS RS-232 DATA RX	-105 (24)----------S-T-S----	
(B)	FMS RS-232 DATA TX	E190J1B-106 (24)----------S-T-S----	
		GND┘ └GND	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 3 (cont)
IC-800

IO BP	Function		Connector Pin		Connects To
(O)	AT 1 SERVO DRIVE (CCW DRUM ROTATION)	(H)	E190J1C-1	(20)----------S-T-S----	128J1-B
(O)		(L)	-2	(20)----------S-T-S----	128J1-C
				GND┘ └GND	
(O)	AT 2 SERVO DRIVE (CCW DRUM ROTATION)	(H)	-3	(20)----------S-T-S----	C128J1-B
(O)		(L)	-5	(20)----------S-T-S----	C128J1-C
				GND┘ └GND	
(O)	CROSS YD PWR SENSE OUT (28 V/OPEN)		-4		
			-5	SEE E190J1C-3	
(O)	TRIM UP (28V/GND)		-6		
(O)	SPARE	(H)	-7		
(O)	A-429 XMTR #5	(L)	-9		
(O)	TRIM DN (28V/GND)		-8		
			-9	SEE E190J1C-7	
(O)	+28V AT CLUTCH #3 OUT		-10	(20)----------S---S----	E128J1-E
				GND┘ └GND	
	IOP RESERVED		-11		
(O)	+28V AT CLUTCH #1,2 OUT		-12	(20)----------S---S----	128J1-E, C128J1-E
				GND┘ └GND	
(O)	AT 3 SERVO DRIVE (CCW DRUM ROTATION)	(L)	-13	(20)----------S-T-S----	E128J1-C
(O)		(H)	-26	(20)----------S-T-S----	E128J1-B
				GND┘ └GND	
(O)	GENERAL BUS #2	(H)	-14	(24)----------S-T-S----	FIGURE 8-2
(O)	A-429 XMTR #3	(L)	-15	(24)----------S-T-S----	
				GND┘ └GND	
(I)	LRN #3	(H)	-16	(24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #16	(L)	-17	(24)----------S-T-S----	
				GND┘ └GND	
(I)	AFIS	(H)	-18	(24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #14	(L)	E190J1C-19	(24)----------S-T-S----	
				GND┘ └GND	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 3 (cont)
IC-800

IO BP	Function		Connector Pin		Connects To
(I)	DU #5 WRAPAROUND A-429 RCVR #13	(H)	E190J1C-20	(24)----------S-T-S----	C130J1-66, 190J1C-20, C190J1C-20
(I)		(L)	-21	(24)----------S-T-S---- GND GND	C130J1-79, 190J1C-21, C190J1C-21
(I)	SPARE FGC DISC IN (GND/OPEN)		-22		
(I)	SPARE FGC DISC IN (GND/OPEN)		-23		
(I)	SPARE	(L)	-24	(24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #18	(H)	-25	(24)----------S-T-S---- GND GND	
			-26	SEE E190J1C-13	
	SPARE CARD RESERVED		-27		
(I)	MLS #1	(H)	-28	(24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #4	(L)	-29	(24)----------S-T-S---- GND GND	
(I)	EICAS LEFT SEL (GND/OPEN)		-30	(24)----------	E135J1-6
(I)	PFD 1 OFF (GND/OPEN)		-31	(24)----------	135J1-10
(O)	AURAL WARNING OUT B	(H)	-32		
(O)	AURAL WARNING OUT B	(L)	-33		
	RSB RESERVED		-34		
	RSB RESERVED		-35		
(B)	RSB SECONDARY (H)		-36		
(B)	RSB SECONDARY (L)		-37		
(I)	DISPLAY CONTROL #2	(H)	-38	(24)----------S-T-S----	C115J1-7, 190J1C-38
(I)	IOP RS-422 RX	(L)	-39	(24)----------S-T-S---- GND GND	C115J1-8, 190J1C-39
	FGC RESERVED		-40		
(I)	SPARE FGC DISC IN (28V/OPEN)		-41		
	FGC RESERVED		-42		
	FGC RESERVED		-43		
(O)	CROSS AP PWR SENSE OUT (28 V/OPEN)		E190J1C-44		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 3 (cont)
IC-800

IO BP	Function		Connector Pin		Connects To
	FGC RESERVED		E190J1C-45		
	FGC RESERVED		-46		
	FGC RESERVED		-47		
(O)	FMS CDU DTR OUT	(L)	-48	(24)----------S-T-S----	E120J1-V
(O)	FMS RS-422 TX	(H)	-49	(24)----------S-T-S----	E120J1-U
				GND┘ └GND	
	FGC RESERVED		-50		
(O)	FMS CDU DATA OUT	(L)	-51	(24)----------S-T-S----	E120J1-T
(O)	FMS RS-422 TX	(H)	-52	(24)----------S-T-S----	E120J1-S
				GND┘ └GND	
	SPARE CARD RESERVED		-53		
	SPARE CARD RESERVED		-54		
(O)	CROSS-CHANNEL SYNC OUT (GND/OPEN)		-55		
(I)	SPARE FGC DISC IN (28V/OPEN)		-56		
	FGC RESERVED		-57		
(I)	FMS CDU CTS IN	(L)	-58	(24)----------S-T-S----	E120J1-R
(O)	FMS RS-422 RX	(H)	-59	(24)----------S-T-S----	E120J1-P
				GND┘ └GND	
(I)	SPARE FGC ANALOG IN (H)		-60		
(I)	SPARE FGC ANALOG IN (L)		-61		
	FGC RESERVED		-62		
(O)	FMS CDU CLOCK OUT	(L)	-63	(24)----------S-T-S----	E120J1-X
(O)	FMS RS-422 TX	(H)	-64	(24)----------S-T-S----	E120J1-W
				GND┘ └GND	
(I)	TCAS	(H)	-65	(24)----------S-T-S----}	FIGURE 8-2
(I)	A-429 RCVR #6	(L)	-66	(24)----------S-T-S----}	
				GND┘ └GND	
	SPARE CARD RESERVED		-67		
(O)	SPARE FMS DISC OUT (GND/OPEN)		-68		
(O)	CDU SYNC OUT (GND/OPEN)		-69	(24)----------	190J1A-32, C190J1A-32
(O)	TAG SYNC OUT (GND/OPEN)		E190J1C-70	(24)----------	190J1A-18, C190J1A-18

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 3 (cont)
IC-800

IO BP	Function	Connector Pin		Connects To
(I)	FMS CDU DATA IN (L)	E190J1C-71	(24)----------S-T-S----	E120J1-N
(O)	FMS RS-422 RX (H)	-72	(24)----------S-T-S----	E120J1-M
			GND┘ └GND	
	SPARE CARD RESERVED	-73		
	SPARE CARD RESERVED	-74		
	SPARE CARD RESERVED	-75		
(I)	LIGHTNING SENSOR (H)	-76	(24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #7 (L)	-77	(24)----------S-T-S----	
			GND┘ └GND	
(O)	SPARE (H)	-78	(24)----------S-T-S----	FIGURE 8-2
(O)	A-429 XMTR #2 (L)	-79	(24)----------S-T-S----	
			GND┘ └GND	
	SPARE CARD RESERVED	-80		
	SPARE CARD RESERVED	-81		
(O)	SPARE FMS DISC OUT (GND/OPEN)	-82		
(O)	SPARE FMS DISC OUT (GND/OPEN)	-83		
(O)	SPARE FMS DISC OUT (GND/OPEN)	-84		
(O)	DU HDLC TX #1 (H)	-85	----------S-T-S----	FIGURE 8-14
(O)	DU HDLC TX #1 (L)	-86	----------S-T-S----	
			GND┘ └GND	
	SPARE CARD RESERVED	-87		
	SPARE CARD RESERVED	-88		
	SPARE CARD RESERVED	-89		
	SPARE CARD RESERVED	-90		
	SPARE CARD RESERVED	-91		
	SPARE CARD RESERVED	-92		
(I)	SIGNAL GROUND	-93	(24)----------	SIGNAL GND
	SPARE CARD RESERVED	-94		
(O)	SPARE (H)	-95		
(O)	IOP RS-422 TX (L)	-96		
(I)	LRN #1 (H)	-97	(24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #5 (L)	E190J1C-98	(24)----------S-T-S----	
			GND┘ └GND	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 3 (cont)

IC-800

IO BP	Function	Connector Pin		Connects To
(I)	V/L #1	(L) E190J1C-99	(24) S-T-S	FIGURE 8-2
(I)	A-429 RCVR #3	(H) -100	(24) S-T-S	FIGURE 8-2
			GND	GND
(I)	DME #1	(L) -101	(24) S-T-S	FIGURE 8-2
(I)	A-429 RCVR #2	(H) -102	(24) S-T-S	FIGURE 8-2
			GND	GND
(I)	ADF #1	(L) -103	(24) S-T-S	FIGURE 8-2
(I)	A-429 RCVR #1	(H) -104	(24) S-T-S	FIGURE 8-2
			GND	GND
	SPARE CARD RESERVED	-105		
(I)	SIGNAL GROUND	E190J1C-106	(24)	SIGNAL GND

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 3 (cont)
IC-800

IO BP	Function	Connector Pin		Connects To
(I)	RESERVED (LX ON) (OPEN/GND)	E190J1D-1		
(I)	IAC 3 OVERHEAT (GND/OPEN)	-2	(24)----------	190J1D-2, C190J1D-2, E190J1B-67
	POWER SUPPLY RESERVED	-3		
(I)	FMS DATA LDR CONNECTED (GND/OPEN)	-4	(24)----------	123J1-F
	POWER SUPPLY RESERVED	-5		
(P)	+28V IAC POWER	-6	(20)----------	FIGURE 8-6
(P)	+28V IAC POWER	-7	(20)----------	
(P)	+28V IAC POWER	-8	(20)----------	
	FGC RESERVED	-9		
(P)	IAC POWER RETURN	-10	(20)----------	DC POWER GND
(P)	IAC POWER RETURN	-11	(20)----------	
(P)	IAC POWER RETURN	-12	(20)----------	
	FGC RESERVED	-13		
(O)	GC PANEL ANN VALID (28V/OPEN)	-14		
(I)	SPARE FGC DISC IN (GND/OPEN)	-15		
(I)	YD ACTUATOR EXTENDED	-16		
(I)	YD ACTUATOR RETRACTED	-17		
	FGC RESERVED	-18		
	FGC RESERVED	-19		
(I)	PITCH WHEEL #2 (L)	-20		
(I)	PITCH WHEEL #2 (H)	-21		
(O)	NON-SWITCHED LVDT/RVDT EXCITATION (H)	-22		
(O)	NON-SWITCHED LVDT/RVDT EXCITATION (L)	-23		
(I)	TRIM POSITION (H)	-24		
(I)	TRIM POSITION (L)	E190J1D-25		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 3 (cont)
IC-800

IO BP	Function	Connector Pin	Connects To
	FGC RESERVED	E190J1D-26	
(O)	DAU2 REV (GND/OPEN)	-27 (24)----------	FIGURE 8-2
(O)	CAUTION ANNUN (GND/OPEN)	-28	
(I)	SG 2 REV (GND/OPEN)	-29 (24)----------	C135J1-40
(I)	SPARE DIO DISC IN (GND/OPEN)	-30	
(I)	PFD 2 OFF (GND/OPEN)	-31 (24)----------	C135J1-11
(I)	SPARE DIO DISC IN (GND/OPEN)	-32	
(I)	FWC AP DISCONNECT IN (GND/OPEN)	-33 (24)----------	FIGURE 11
(O)	RESERVED (FWC DOWNLOAD IN PROGRESS) (28V/OPEN)	-34	
(I)	SPARE DIO DISC IN (GND/OPEN)	-35	
(O)	RESERVED (FWC ERASE IN PROGRESS) (28V/OPEN)	-36	
(I)	TRUE REF SELECT (GND/OPEN)	-37	
(I)	SPARE FGC RVDT (L)	-38	
(I)	ANALOG IN (H)	-39	
	FGC RESERVED	-40	
(I)	PILOT EVENT MKR (GND/OPEN)	-41 (24)----------	FIGURE 8-16
(I)	SPARE DIO DISC IN (GND/OPEN)	-42	
(I)	IAC 1 OVERHEAT (GND/OPEN)	-43 (24)----------	190J1B-67, 190J1D-43, C190J1D-43
(O)	CHECK PFD ANNUN (GND/OPEN)	-44 (24)----------	FIGURE 8-15
(I)	SG 1 REV (GND/OPEN)	-45 (24)----------	135J1-40
(I)	CHASSIS GROUND	E190J1D-46	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 3 (cont)
IC-800

IO BP	Function	Connector Pin	Connects To
(O)	SPARE DIO DISC OUT (28V/OPEN)	E190J1D-47	
(I)	IAC 2 OVERHEAT (GND/OPEN)	-48 (24)----------	C190J1B-67, 190J1D-48, C190J1D-48
(O)	SPARE DIO DISC OUT (28V/OPEN)	-49	
(O)	GC PANEL STROBE OUT (L)	-50	
(O)	GC PANEL STROBE OUT (H)	-51	
	FGC RESERVED	-52	
(I)	SG 3 REV (GND/OPEN)	-53 (24)----------	E135J1-43
(I)	AT 3 SERVO TACH (L)	-54 (24)----------S-T-S----	E128J1-D
(I)	AT 3 SERVO TACH (H)	-55 (24)----------S-T-S---- GND GND	E128J1-A
(I)	SPARE FGC RVDT (L)	-56	
(I)	ANALOG IN (H)	-57	
(I)	AT 1 SERVO TACH (L)	-58 (24)----------S-T-S----	128J1-D
(I)	AT 1 SERVO TACH (H)	-59 (24)----------S-T-S---- GND GND	128J1-A
(I)	AT 2 SERVO TACH (L)	-60 (24)----------S-T-S----	C128J1-D
(I)	AT 2 SERVO TACH (H)	-61 (24)----------S-T-S---- GND GND	C128J1-A
(I)	GC PANEL (L)	-62	
(I)	BUTTON DATA (H)	-63	
(I)	AWP ENABLE (28V/OPEN)	-64	
(I)	SPARE FGC DISC IN (28V/OPEN)	-65	
(I)	BC ID 1 (GND/OPEN)	E190J1D-66	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 3 (cont)
IC-800

IO BP	Function	Connector Pin		Connects To
(O)	SPARE FMS DISC OUT (GND/OPEN)	E190J1D-67		
(O)	FMS VTA HORN (GND/OPEN)	-68	(24)----------	FIGURE 8-15
(O)	SWITCHED LVDT/RVDT EXCITATION	(L) -69 (H) -70		
(I)	RESERVED [HDLC RX #1 (H)]	-71		
(I)	RESERVED [HDLC RX #1 (L)]	-72		
	FGC RESERVED	-73		
	FGC RESERVED	-74		
(O)	CROSS SERVOS OFF (28V/OPEN)	-75		
(O)	CROSS SERVOS PWR OFF (28V/OPEN)	-76		
(I)	AIL RVDT SURFACE POS (L)	-77		
(I)	AIL RVDT SURFACE POS (H)	-78		
(I)	BC ID 3 (GND/OPEN)	-79	(24)----------	SIGNAL GND
(B)	IOP RS-232 COMMON	-80	(24)----------S-T-S----	FIGURE 8-3
(B)	IOP RS-232 DATA XMTR	-81	(24)----------S-T-S----	FIGURE 8-3
(B)	IOP RS-232 DATA RCVR	-82	(24)----------S-T-S----	FIGURE 8-3
			GND└┘ └┘GND	
(I)	RESERVED [HDLC RX #2 (H)]	-83		
(I)	RESERVED [HDLC RX #2 (L)]	-84		
(O)	RESERVED (SBY ENG ENABLE) (GND/OPEN)	-85		
(I)	SPARE DIO DISC IN (GND/OPEN)	-86		
(I)	SPARE DIO DISC IN (GND/OPEN)	-87		
(I)	RESERVED (FWC MEM ERASE) (GND/OPEN)	-88		
(I)	+28V AP CLUTCH IN (28V/OPEN)	E190J1D-89	(20)----------S---S---- GND└┘ └┘GND	12J1-G, 13J1-G, 190J1C-12, C190J1C-12, 190J1D-89, C190J1D-89

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 3 (cont)
IC-800

IO BP	Function	Connector Pin		Connects To
(I)	RESERVED (FWC DOWNLOAD INIT) (GND/OPEN)	E190J1D-90		
(I)	+28V YD BRAKE IN (28V/OPEN)	-91	(22) GND	14J1-E, 190J1C-10, C190J1C-10, 190J1D-91, C190J1D-91
(I)	SPARE DIO DISC IN (GND/OPEN)	-92		
(I)	COPILOT STICKSHAKER (28V/OPEN)	-93		
(O)	GC PANEL POWER RETURN	-94		
(O)	5V GC PANEL POWER	-95		
(O)	GC PANEL CLOCK (L)	-96		
(O)	GC PANEL CLOCK (H)	-97		
(O)	GC PANEL ANNUN DATA (L)	-98		
(O)	GC PANEL ANNUN DATA (H)	-99		
(O)	TRIM ARM UP OUT (28V/OPEN)	-100		
(I)	FMS RESET (GND/OPEN)	-101		
(I)	SPARE DIO DISC IN (GND/OPEN)	-102		
(I)	WEIGHT ON WHEELS (GND/OPEN)	-103	(24)	FIGURE 8-5
(B)	ASCB NO. 1 PRI (H)	-104		FIGURE 8-1
(B)	ASCB NO. 1 PRI (L)	-106		FIGURE 8-1
(O)	TRIM ARM DN OUT (28V/OPEN)	-105		
		E190J1D-106	SEE E190J1D-104	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

IAC INSTALLATION MODULE NO. 3
IM-803

IO BP	Function	Connector Pin		Connects To
(P)	+5 VDC POWER	E199J1-1	(24)----------S-T-S----	E190J1B-94
(P)	+5 VDC POWER RETURN	-2	(24)----------S-T-S----	E190J1B-95
(O)	DATA XMTR	E199J1-3	(24)----------S-T-S----	E190J1B-96
			NC┘ └GND	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

MICRO AIR DATA COMPUTER (MADC) NO. 2
AZ-840

IO BP	Function	Connector Pin		Connects To
(I)	UNIT ID0 (GND/OPEN)	C9J1-1	(24)----------	SIGNAL GND
(I)	UNIT ID1 (GND/OPEN)	-2		
(I)	UNIT ID2 (GND/OPEN)	-3		
(I)	UNIT ID3 (GND/OPEN)	-4	(24)----------	SIGNAL GND
(I)	UNIT ID4 (GND/OPEN)	-5		
(I)	UNIT ID5 (GND/OPEN)	-6		
(I)	UNIT ID6 (GND/OPEN)	-7		
(I)	SDI/1 (GND/OPEN)	-8		
(I)	SDI/2 (GND/OPEN)	-9	(24)----------	SIGNAL GND
(I)	SDI/3 (GND/OPEN)	-10		
	SPARE	-11		
(I)	WOW (GND/OPEN)	-12	(24)----------	FIGURE 8-5
(P)	SIGNAL GROUND	-13	(24)----------	SIGNAL GND
	SPARE	-14		
(I)	SPARE IN 1 (GND/OPEN)	-15		
(I)	SPARE IN 2 (GND/OPEN)	-16		
(I)	SPARE IN 3 (GND/OPEN)	-17		
(I)	SPARE IN 4 (GND/OPEN)	-18		
(I)	SPARE IN 1 (+28 V/OPEN)	-19		
(I)	SPARE IN 2 (+28 V/OPEN)	-20		
(O)	IAS ≥ 170 KNOTS (GND/OPEN)	-21	(24)----------	TO AIRCRAFT
(O)	IAS ≥ 210 KNOTS (GND/OPEN)	-22	(24)----------	
(O)	IAS ≥ 265 KNOTS (GND/OPEN)	-23	(24)----------	
(O)	IAS ≥ 280 KNOTS (GND/OPEN)	-24	(24)----------	
(O)	TAS ≤ 310 KNOTS (GND/OPEN)	-25	(24)----------	
(P)	+28 VDC POWER	-26	(20)----------	FIGURE 8-6
(P)	+28 VDC POWER RETURN	-27	(20)----------	DC POWER GND
(O)	OVERSPEED WARNING DISC (GND/OPEN)	-28	(24)----------	OVERSPEED HORN
(O)	MADC VALID DISC (GND/OPEN)	-29		
(B)	ASCB NO. 2 PRI (H)	-30	----------S-T-S----	FIGURE 8-1
(B)	ASCB NO. 2 PRI (L)	C9J1-34	----------S-T-S----	
			GND└┘ └┘GND	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

MICRO AIR DATA COMPUTER (MADC) NO. 2 (cont)
AZ-840

IO BP	Function	Connector Pin		Connects To
(I)	TEMPERATURE PROBE (H)	C9J1-31	(24)----------S-T-S----┐	500 OHM
			| | |	TEMPERATURE
(I)	TEMPERATURE PROBE (L)	-32	(24)----------S-T-S----┘	PROBE
			GND┘ └GND	
	SPARE	-33		
		-34	SEE C9J1-30	
(I)	AOA POTENTIOMETER (H)	-35	(24)----------S-T-S----┐	ANGLE OF
(I)	AOA POTENTIOMETER (W)	-36	(24)----------S-T-S----┤	ATTACK
(I)	AOA POTENTIOMETER (L)	-37	(24)----------S-T-S----┘	POTENTIOMETER
			GND┘ └GND	
(I)	CALIBRATION ENABLE (GND/OPEN)	-38		
	SPARE	-39		
	SPARE	-40		
	SPARE	-41		
(I)	ATC SELECT (GND/OPEN)	-42		
(O)	ATC A1	-43		
(O)	ATC A2	-44		
(O)	ATC A4	-45		
(O)	ATC B1	-46		
(O)	ATC B2	-47		
(O)	ATC B4	-48		
(O)	ATC C1	-49		
(O)	ATC C2	-50		
(O)	ATC C4	-51		
(O)	ATC D4	-52		
	SPARE	-53		
	SPARE	-54		
(B)	RS-232 DATA RCVR	-55	(24)----------S-T-S----┐	
(B)	RS-232 COMMON	-56	(24)----------S-T-S----┤	FIGURE 8-3
(B)	RS-232 DATA XMTR	-57	(24)----------S-T-S----┘	
			GND┘ └GND	
(I)	RESERVED	C9J1-58		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

MICRO AIR DATA COMPUTER (MADC) NO. 2 (cont)
AZ-840

IO BP	Function	Connector Pin	Connects To
(B)	ASCB NO. 2 BACKUP (H)	C9J1-59 ----------S-T-S----	FIGURE 8-1
(B)	ASCB NO. 2 BACKUP (L)	-62 ----------S-T-S----	
		GND GND	
(B)	ARINC 429 BUS 1 (H)	-60 (24)----------S-T-S----	FIGURE 8-2
(B)	ARINC 429 BUS 1 (L)	-61 (24)----------S-T-S----	
		GND GND	
		-62 SEE C9J1-59	
(B)	ARINC 429 BUS 2 (H)	-63 (24)----------S-T-S----	FIGURE 8-2
(B)	ARINC 429 BUS 2 (L)	-64 (24)----------S-T-S----	
		GND GND	
(B)	ASCB NO. 1 PRI (H)	-65 ----------S-T-S----	FIGURE 8-1
(B)	ASCB NO. 1 PRI (L)	-77 ----------S-T-S----	
		GND GND	
(B)	ARINC 429 BUS 3 (H)	-66 (24)----------S-T-S----	FIGURE 8-2
(B)	ARINC 429 BUS 3 (L)	-67 (24)----------S-T-S----	
		GND GND	
(B)	ARINC 429 BUS 4 (H)	-68	
(B)	ARINC 429 BUS 4 (L)	-69	
(I)	FUNCTIONAL TEST (GND/OPEN)	-70 (24)----------	FIGURE 8-8
(I)	BARO STD SYNC (GND/OPEN)	-71 (24)----------	C130J1-46
(I)	SSEC DISABLE	-72 (24)----------	FIGURE 8-8
	SPARE	-73	
(I)	BARO-CORRECTION B0	-74 (24)----------	C130J1-21
(I)	BARO-CORRECTION B1	-75 (24)----------	C130J1-25
	SPARE	-76	
		-77 SEE C9J1-65	
	SPARE	-78	
	SPARE	C9J1-79	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

WEATHER RADAR CONTROLLER NO. 2
WC-880

IO BP	Function	Connector Pin		Connects To
(B)	SERIAL CONTROL (H)	C61J1-A	(24)----------S-T-S----	59J1-a
(B)	SERIAL CONTROL (L)	-B	(24)----------S-T-S----	59J1-b
			GND┘ └GND	
	SPARE	-C		
(P)	28 VDC POWER	-D	(22)----------	FIGURE 8-6
(P)	28 VDC POWER RETURN	-E	(22)----------	DC POWER GND
(I)	CHASSIS GROUND	-F		
(P)	0-28 VDC EDGE LIGHTING (H)	-G		
(P)	0-5 VDC EDGE LIGHTING (H)	-H	(22)----------	FIGURE 8-7
(P)	LIGHTING COMMON	-J	(22)----------	LIGHTING GND
(I)	+28 VDC ANNUN LIGHTING DIM	-K	(22)----------	FIGURE 8-7
(I)	RANGE UP	-L	(24)----------	190J1B-27, C190J1B-27, E190J1B-27
(I)	SHIELD GND	-M		
(I)	RANGE DN	-N	(24)----------	190J1B-28, C190J1B-28, E190J1B-28
(I)	FORCED SBY NO. 1 (GND/OPEN)	-P	(24)----------	FIGURE 8-5
(O)	REMOTE ON (GND/OPEN)	-R	(24)----------	59J1-U, 61J1-R, 190J1B-45, C190J1B-45, E190J1B-45
(I)	FORCED SBY NO. 2 (GND/OPEN)	-S		
(I)	OFF IN	-T	(24)----------	61J1-U
(O)	OFF OUT	C61J1-U	(24)----------	61J1-T

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY CONTROLLER (DC) NO. 2
DC-840

IO BP	Function	Connector Pin	Connects To
(P)	28 V DC POWER RETURN	C115J1-1 (22)	DC POWER GND
(I)	SIGNAL GROUND	-2 (24)	SIGNAL GND
(I)	CHASSIS GROUND	-3	
(B)	RS-422 XMTR #1 (H)	-4 (24) S-T-S	C190J1C-38
(B)	RS-422 XMTR #1 (L)	-5 (24) S-T-S	C190J1C-39
		GND, GND	
	RESERVED (CLK EN)	-6	
(B)	RS-422 XMTR #2 (H)	-7 (24) S-T-S	190J1C-38, E190J1C-38
(B)	RS-422 XMTR #2 (L)	-8 (24) S-T-S	190J1C-39, E190J1C-39
		GND, GND	
	RESERVED (CLK T)	-9	
	SPARE	-10	
(O)	SPARE PB (GND/OPEN)	-11	
(O)	BRG 0 VOR1 (GND/OPEN)	-12	
(O)	BRG 0 ADF1 (GND/OPEN)	-13	
(O)	BRG 0 FMS1 (GND/OPEN)	-14	
(O)	BRG <> VOR2 (GND/OPEN)	-15	
(O)	BRG <> ADF2 (GND/OPEN)	-16	
(O)	BRG <> FMS2 (GND/OPEN)	-17	
(O)	SPARE PB (GND/OPEN)	-18	
(I)	SPARE PB (GND/OPEN)	-19	
(I)	SPARE PB (GND/OPEN)	-20	
(I)	SPEED PUSH CHG (GND/OPEN)	-21 (24)	11J3-11, 115J1-21
(O)	CRS PUSH DCT #1 (GND/OPEN)	-22	
(O)	HDG/TRK SEL #1 (GND/OPEN)	-23	
(O)	H/T PUSH SYNC #1 (GND/OPEN)	-24	
(I)	DU #2 PB0 (GND/OPEN)	-25 (24)	131J1-62, 115J1-25
(I)	DU #2 PB1 (GND/OPEN)	-26 (24)	131J1-60, 115J1-26
(I)	DU #2 PB2 (GND/OPEN)	-27 (24)	131J1-51, 115J1-27
(I)	DU #2 PB3 (GND/OPEN)	C115J1-28 (24)	131J1-50, 115J1-28

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY CONTROLLER (DC) NO. 2 (CONT)
DC-840

IO BP	Function	Connector Pin	Connects To
(I)	DU #2 KNOB BO	C115J1-29 (24)	131J1-21, 115J1-29
(I)	DU #2 KNOB B1	-30 (24)	131J1-25, 115J1-30
(I)	DU #2 PB4 (GND/OPEN)	-31 (24)	131J1-47, 115J1-31
(I)	DU #2 PB5 (GND/OPEN)	-32 (24)	131J1-46, 115J1-32
(I)	SPARE PB (GND/OPEN)	-33	
(I)	DU #3 PB0 (GND/OPEN)	-34 (24)	132J1-62, 115J1-34
(I)	DU #3 PB1 (GND/OPEN)	-35 (24)	132J1-60, 115J1-35
(I)	DU #3 PB2 (GND/OPEN)	-36 (24)	132J1-51, 115J1-36
(I)	DU #3 KNOB BO	-37 (24)	132J1-21, 115J1-37
(I)	DU #3 KNOB B1	-38 (24)	132J1-25, 115J1-38
(I)	DU #3 PB3 (GND/OPEN)	-39 (24)	132J1-50, 115J1-39
(I)	DU #3 PB4 (GND/OPEN)	-40 (24)	132J1-47, 115J1-40
(I)	DU #3 PB5 (GND/OPEN)	-41 (24)	132J1-46, 115J1-41
(I)	SPARE PB (GND/OPEN)	-42	
(I)	DU #4 PB0 (GND/OPEN)	-43 (24)	C131J1-62, 115J1-43
(I)	DU #4 PB1 (GND/OPEN)	-44 (24)	C131J1-60, 115J1-44
(I)	DU #4 KNOB BO	-45 (24)	C131J1-21, 115J1-45
(I)	DU #4 KNOB B1	-46 (24)	C131J1-25, 115J1-46
(I)	ALT SEL KNOB BO	-47 (24)	11J3-5, 115J1-47
(I)	ALT SEL KNOB B1	-48 (24)	11J3-6, 115J1-48
(I)	DU #4 PB2 (GND/OPEN)	-49 (24)	C131J1-51, 115J1-49
(I)	DU #4 PB3 (GND/OPEN)	C115J1-50 (24)	C131J1-50, 115J1-50

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY CONTROLLER (DC) NO. 2 (CONT)
DC-840

IO BP	Function		Connector Pin		Connects To
(I)	DU #4 PB4 (GND/OPEN)		C115J1-51	(24)----------	C131J1-47, 115J1-51
(I)	DU #4 PB5 (GND/OPEN)		-52	(24)----------	C131J1-46, 115J1-52
(I)	SPARE PB (GND/OPEN)		-53		
(I)	IRS REV #1 (GND/OPEN)		-54	(24)----------	135J1-52, 115J1-54
(I)	ADC REV #1 (GND/OPEN)		-55	(24)----------	135J1-51, 115J1-55
(I)	IRS REV #2 (GND/OPEN)		-56	(24)----------	C135J1-52, 115J1-56
(I)	ADC REV #2 (GND/OPEN)		-57	(24)----------	C135J1-51, 115J1-57
(I)	DAU 1 REV (GND/OPEN)		-58	(24)----------	E135J1-51, 115J1-58
(P)	28 V DC POWER		-59	(22)----------	FIGURE 8-6
(I)	DAU 2 REV (GND/OPEN)		-60	(24)----------	E135J1-52, 115J1-60
(I)	DH/MDA (GND/OPEN)		-61	(24)----------	11J3-4, 115J1-61
	SPARE		-62		
	SPARE		-63		
	SPARE		-64		
	SPARE		-65		
(I)	MIN SEL KNOB	B0	-66	(24)----------	11J3-2, 115J1-66
(I)		B1	-67	(24)----------	11J3-3, 115J1-67
(O)	HDG/TRK KNOB	B0	-68		
(O)		B1	-69		
(O)	CRS KNOB	B0	-70		
(O)		B1	-71		
(I)	SPARE KNOB	B0	-72		
(I)		B1	-73		
(I)	SPARE KNOB	B0	-74		
(I)		B1	C115J1-75		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY CONTROLLER (DC) NO. 2 (CONT)
DC-840

IO BP	Function	Connector Pin	Connects To
(P)	0-5 V DC EDGE LIGHTING (H)	C115J1-76 (22)	FIGURE 8-7
(P)	0-5 V DC EDGE LIGHTING (L)	-77 (22)	LIGHTING GND
(I)	IAS/MACH KNOB B0	-78 (24)	11J3-8, 115J1-78
(I)	IAS/MACH KNOB B1	C115J1-79 (24)	11J3-9, 115J1-79
(I)	IAS/MACH SEL PB (GND/OPEN)	C115J2-1 (24)	11J3-12, 115J2-1
(I)	IAS/MACH MAN/FMS SW (GND/OPEN)	-2 (24)	11J3-10, 115J2-2
(I)	FGC SEL 1/2 PB (GND/OPEN)	-3 (24)	11J3-13, 115J2-3
(I)	ASEL 100/1000 FT SW (GND/OPEN)	-4 (24)	11J3-7, 115J2-4
(I)	RAD ALT REV #1 (GND/OPEN)	-5 (24)	135J1-18, 115J2-5
(I)	RAD ALT REV #2 (GND/OPEN)	-6 (24)	C135J1-18, 115J2-6
(I)	SPARE PB (GND/OPEN)	-7	
(I)	DU #1 PB0 (RESERVED) (GND/OPEN)	-8	
(I)	DU #1 PB1 (RESERVED) (GND/OPEN)	-9 (24)	130J1-60, 115J2-9
(I)	DU #1 PB2 (FPA) (GND/OPEN)	-10 (24)	130J1-51, 115J2-10
(I)	DU #1 PB3 (METRIC) (GND/OPEN)	-11 (24)	130J1-50, 115J2-11
(I)	DU #1 PB4 (IN/HPA) (GND/OPEN)	-12 (24)	130J1-47, 115J2-12
(I)	DU #1 PB5 (RESERVED) (GND/OPEN)	-13	
(I)	SPARE PB (GND/OPEN)	C115J2-14	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY CONTROLLER (DC) NO. 2 (CONT)
DC-840

IO BP	Function	Connector Pin	Connects To
(I)	SG TEST #1 (GND/OPEN)	C115J2-15 (24)	135J1-49, 115J2-15, 190J1B-51
(I)	SG TEST #2 (GND/OPEN)	-16 (24)	C135J1-49, 115J2-16 C190J1B-51
(I)	SG TEST #3 (GND/OPEN)	-17 (24)	E135J1-49, 115J2-17 E190J1B-51
(I)	ANNUN TEST (GND/OPEN)	-18 (24)	FIGURE 8-7
(I)	SPARE PB (GND/OPEN)	-19	
(I)	SPARE PB (GND/OPEN)	-20	
(I)	SPARE PB (GND/OPEN)	-21	
(I)	DU #5 PB0 (RESERVED) (GND/OPEN)	-22	
(I)	DU #5 PB1 (RESERVED) (GND/OPEN)	-23 (24)	C130J1-60, 115J2-23
(I)	DU #5 PB2 (FPA) (GND/OPEN)	-24 (24)	C130J1-51, 115J2-24
(I)	DU #5 PB3 (METRIC) (GND/OPEN)	-25 (24)	C130J1-50, 115J2-25
(I)	DU #5 PB4 (IN/HPA) (GND/OPEN)	-26 (24)	C130J1-47, 115J2-26
(I)	DU #5 PB5 (RESERVED) (GND/OPEN)	-27	
(I)	SPARE PB (GND/OPEN)	-28	
	SPARE	-29	
	SPARE	-30	
	SPARE	-31	
	SPARE	-32	
	SPARE	-33	
	SPARE	-34	
	SPARE	-35	
	SPARE	-36	
	SPARE	C115J2-37	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

CONTROL DISPLAY UNIT (CDU) NO. 2
CD-810

IO BP	Function	Connector Pin		Connects To
	SPARE	C120J1-A		
(P)	+28 VDC POWER	-B	(20)----------	FIGURE 8-6
(P)	+28 VDC POWER RETURN	-C	(20)----------	DC POWER GND
(P)	LIGHTING COMMON (L)	-D	(22)----------	LIGHTING GND
	SPARE	-E		
(P)	28 V ANN POWER (H)	-F	(22)----------	FIGURE 8-6
(I)	CHASSIS GND	-G		
(P)	28 V ANN POWER (L)	-H	(22)----------	DC POWER GND
(P)	0-5 V PANEL LIGHTING (H)	-J	(22)----------	FIGURE 8-7
(P)	28 V PANEL LIGHTING (H)	-K		
	SPARE	-L		
(B)	NAV DATA OUT (H)	-M	(24)----------S-T-S----	C190J1C-72
(B)	RS-422 XMTR (L)	-N	(24)----------S-T-S----	C190J1C-71
			GND┘ └GND	
(B)	NAV DATA TRM RDY (H)	-P	(24)----------S-T-S----	C190J1C-59
(B)	RS-422 XMTR (L)	-R	(24)----------S-T-S----	C190J1C-58
			GND┘ └GND	
(B)	NAV DATA IN (H)	-S	(24)----------S-T-S----	C190J1C-52
(B)	RS-422 RCVR (L)	-T	(24)----------S-T-S----	C190J1C-51
			GND┘ └GND	
(B)	NAV CLR TO SEND (H)	-U	(24)----------S-T-S----	C190J1C-49
(B)	RS-422 RCVR (L)	-V	(24)----------S-T-S----	C190J1C-48
			GND┘ └GND	
(B)	NAV CLK IN (H)	-W	(24)----------S-T-S----	C190J1C-64
(B)	RS-422 RCVR (L)	-X	(24)----------S-T-S----	C190J1C-63
			GND┘ └GND	
(B)	PERF DATA OUT (H)	-Y		
(B)	RS-422 XMTR (L)	-Z		
(B)	PERF DATA TRM RDY (H)	-a		
(B)	RS-422 XMTR (L)	C120J1-b		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

CONTROL DISPLAY UNIT (CDU) NO. 2 (cont)
CD-810

IO BP	Function	Connector Pin		Connects To
(B)	PERF DATA IN (H)	C120J1-c		
(B)	RS-422 RCVR (L)	-d		
(B)	PERF CLR TO SEND (H)	-e		
(B)	RS-422 RCVR (L)	-f		
(B)	PERF CLK IN (H)	-g		
(B)	RS-422 RCVR (L)	-h		
(O)	CDU VALID (GND/OPEN)	-i	(24)----------	C190J1B-42
	SPARE	-j		
	SPARE	-k		
(O)	R PHOTO SENSOR OUT	-m		
(O)	L PHOTO SENSOR OUT	-n		
	SPARE	-p		
(I)	DIM CALIBRATION	-q		
	SPARE	-r		
(I)	LAMP TEST (GND/OPEN)	-s	(24)----------	FIGURE 8-7
	SPARE	-t		
	SPARE	-u		
(I)	ANNUN DIMMING ENABLE (28V/OPEN)	-v	(24)----------	FIGURE 8-6
(I)	ANNUN INTENSITY CONTROL (0-28 V)	-w	(24)----------	FIGURE 8-7
	SPARE	-x		
	SPARE	-y		
	SPARE	-z		
	SPARE	-AA		
	SPARE	-BB		
	SPARE	-CC		
(I)	COLOR/MONO	-DD		
(I)	TEST ENABLE (GND/OPEN)	-EE		
	SPARE	-FF		
	SPARE	-GG		
	SPARE	C120J1-HH		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

AUTOTHROTTLE SERVO NO. 2
SM-810

IO BP	Function	Connector Pin		Connects To
(O)	SERVO TACH (CCW ROTATION)	(H) C128J1-A	(24)----------S-T-S----	E190J1D-61
(O)		(L) -D	(24)----------S-T-S----	E190J1D-60
			GND┘ └GND	
(I)	SERVO DRIVE (CCW ROTATION)	(H) -B	(20)----------S-T-S----	E190J1C-3
(I)		(L) -C	(20)----------S-T-S----	E190J1C-5
			GND┘ └GND	
		-D	SEE C128J1-A	
(I)	SERVO CLUTCH	(H) -E	(20)----------S---S----	E190J1C-12,
			GND┘ └GND	128J1-E
(I)	SERVO CLUTCH	(L) -F	(20)----------	DC POWER GND
(I)	CHASSIS GND	C128J1-G		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY UNIT NO. 5
DU-870

IO BP	Function	Connector Pin		Connects To
(I)	BRIGHTNESS POT (H)	C130J1-1	(24)----------S-T-S----	C135J1-1
(I)	BRIGHTNESS POT (L)	-13	(24)----------S-T-S----	C135J1-3
(I)	BRIGHTNESS POT (W)	-14	(24)----------S-T-S----	C135J1-2
			GND┘ └NC	
(I)	WX DIMMING (H)	-2		
(I)	WX DIMMING (L)	-3		
(I)	WX DIMMING (W)	-15		
	RESERVED	-4		
	RESERVED	-5		
	RESERVED	-6		
	RESERVED	-7		
	SPARE	-8		
	RESERVED	-9		
	RESERVED	-10		
	RESERVED	-11		
	RESERVED	-12		
		-13	SEE C130J1-1	
		-14	SEE C130J1-1	
		-15	SEE C130J1-2	
	RESERVED	-16		
	RESERVED	-17		
	RESERVED	-18		
(B)	BUS 3 (H)	-19	----------S-T-S----	FIGURE 8-14
(B)	BUS 3 NO TERM (L)	-20	----------S-T-S----	FIGURE 8-14
			GND┘ └GND	
(O)	BARO KNOB (BO)	-21	(24)----------	C9J1-74
(I)	DU PWR DN (GND/OPEN)	-22	(24)----------	C135J1-8
(P)	0-5 VDC EDGE LIGHTING (H)	-23	(22)----------	FIGURE 8-7
(P)	0-5 VDC EDGE LIGHTING (L)	-24	(22)----------	LIGHTING GND
(O)	BARO KNOB (B1)	-25	(24)----------	C9J1-75
(I)	REMOTE LT SENSOR (H)	-26		
(I)	REMOTE LT SENSOR (L)	C130J1-27		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY UNIT NO. 5 (cont)
DU-870

IO BP	Function	Connector Pin		Connects To
(O)	DLS (H)	C130J1-28	(24)----------S-T-S----	C131J1-29
(O)	DLS (L)	-41	(24)----------S-T-S----	C131J1-42
			GND┘ └GND	
(I)	ALS (H)	-29	(24)----------S-T-S----	C131J1-28
(I)	ALS (L)	-42	(24)----------S-T-S----	C131J1-41
			GND┘ └GND	
	RESERVED	-30		
	RESERVED (HDLC OUT +)	-31		
	RESERVED (HDLC OUT -)	-32		
(B)	BUS 3 TERM	-33		
	RESERVED	-34		
(B)	BUS 2 (H)	-35	(24)----------S-T-S----	FIGURE 8-14
(B)	BUS 2 NO TERM (L)	-36	(24)----------S-T-S----	
			GND┘ └GND	
(O)	DU VALID (GND/OPEN)	-37		
(B)	BUS 1 (H)	-38	(24)----------S-T-S----	FIGURE 8-14
(B)	BUS 1 NO TERM (L)	-39	(24)----------S-T-S----	
			GND┘ └GND	
(O)	REMOTE LT SENSOR GND	-40		
		-41	SEE C130J1-28	
		-42	SEE C130J1-29	
	RESERVED	-43		
	RESERVED	-44		
(B)	BUS 4 TERM	-45		
(O)	DU #5 PB5 (STD) (GND/OPEN)	-46	(24)----------	C9J1-71
(O)	DU #5 PB4 (IN/HPA) (GND/OPEN)	-47	(24)----------	115J2-26, C115J2-26
	RESERVED	-48		
(I)	BUS 2 TERM	-49		
(O)	DU #5 PB3 (METRIC) (GND/OPEN)	-50	(24)----------	115J2-25, C115J2-25
(O)	DU #5 PB2 (FORMAT) (GND/OPEN)	-51	(24)----------	115J2-24, C115J2-24
(B)	BUS 1 TERM	-52		
(O)	REM LT SENSOR PWR (H)	-53		
(O)	REM LT SENSOR PWR (L)	C130J1-54		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY UNIT NO. 5 (cont)
DU-870

IO BP	Function	Connector Pin	Connects To
	RESERVED	C130J1-55	
	RESERVED	-56	
	RESERVED	-57	
(B)	BUS 4 (H)	-58	C130J1-59
(B)	BUS 4 NO TERM (L)	-59	C130J1-58
(O)	DU #5 PB1 (FPA) (GND/OPEN)	-60 (24)	115J2-23, C115J2-23
(B)	WX BUS 2 TERM	-61	
	RESERVED	-62	
(I)	KNOB/PB COMMON	-63 (24)	SIGNAL GND
(B)	WX BUS 1 TERM	-64	
(O)	DU OVERTEMP (GND/OPEN)	-65	
(O)	DU WRAPAROUND A-429 XMTR (H)	-66 (24) S-T-S	190J1C-20, C190J1C-20. E190J1C-20
(O)	(L)	-79 (24) S-T-S GND GND	190J1C-21, C190J1C-21, E190J1C-21
	RESERVED	-67	
	RESERVED	-68	
(I)	WX BUS 3 (H)	-69	C130J1-70
(I)	WX BUS 3 NO TERM (L)	-70	C130J1-69
	RESERVED	-71	
	RESERVED	-72	
	RESERVED	-73	
(I)	WX BUS 2 (H)	-74	C130J1-75
(I)	WX BUS 2 NO TERM (L)	-75	C130J1-74
	SPARE	-76	
(I)	WX BUS 1 (H)	-77 (24) S-T-S	FIGURE 8-14
(I)	WX BUS 1 NO TERM (L)	-78 (24) S-T-S GND GND	FIGURE 8-14

C130J1-79 SEE C130J1-66

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY UNIT NO. 5 (cont)
DU-870

IO BP	Function	Connector Pin		Connects To
(I)	SIGNAL GROUND	C130J1-80	(24)	SIGNAL GND
	RESERVED	-81		
	RESERVED	-82		
(I)	WX BUS 3 TERM	-83		
	RESERVED	-84		
	SPARE	-85		
	SPARE	-86		
(I)	PORT SEL 3 (GND/OPEN)	-87	(24)	C135J1-45
(I)	PORT SEL 2 (GND/OPEN)	-88	(24)	C135J1-42
(I)	PORT SEL 1 (GND/OPEN)	-89		
(I)	I.D. #3 (GND/OPEN)	-90	(24)	SIGNAL GND
(I)	I.D. #2 (GND/OPEN)	-91		
(I)	I.D. #1 (GND/OPEN)	-92	(24)	SIGNAL GND
	RESERVED	-93		
(I)	CHASSIS GND	-94		
	RESERVED	-95		
	RESERVED	-96		
	RESERVED	-97		
	RESERVED	-98		
(I)	SOFTWARE ENABLE (GND/OPEN)	-99		
(I)	SOFTWARE ENABLE (GND/OPEN)	-100		
(P)	+28 VDC POWER	-101	(20)	FIGURE 8-6
(P)	+28 VDC POWER	-102	(20)	
(P)	+28 VDC POWER	-103	(20)	
(P)	+28 VDC POWER RETURN	-104	(20)	DC POWER GND
(P)	+28 VDC POWER RETURN	-105	(20)	
(P)	+28 VDC POWER RETURN	C130J1-106	(20)	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY UNIT NO. 4
DU-870

IO BP	Function	Connector Pin		Connects To
(I)	BRIGHTNESS POT (H)	C131J1-1	(24)----------S-T-S----	C135J1-4
(I)	BRIGHTNESS POT (L)	-13	(24)----------S-T-S----	C135J1-6
(I)	BRIGHTNESS POT (W)	-14	(24)----------S-T-S----	C135J1-5
			GND┘ └NC	
(I)	WX DIMMING (H)	-2		
(I)	WX DIMMING (L)	-3		
(I)	WX DIMMING (W)	-15		
	RESERVED	-4		
	RESERVED	-5		
	RESERVED	-6		
	RESERVED	-7		
	SPARE	-8		
	RESERVED	-9		
	RESERVED	-10		
	RESERVED	-11		
	RESERVED	-12		
		-13	SEE C131J1-1	
		-14	SEE C131J1-1	
		-15	SEE C131J1-2	
	RESERVED	-16		
	RESERVED	-17		
	RESERVED	-18		
(B)	BUS 3 (H)	-19	----------S-T-S----	FIGURE 8-14
(B)	BUS 3 NO TERM (L)	-20	----------S-T-S----	FIGURE 8-14
			GND┘ └GND	
(O)	BEZEL KNOB (BO)	-21	(24)----------	115J1-45, C115J1-45
(I)	DU PWR DN (GND/OPEN)	-22		
(P)	0-5 VDC EDGE LIGHTING (H)	-23	(22)----------	FIGURE 8-7
(P)	0-5 VDC EDGE LIGHTING (L)	-24	(22)----------	LIGHTING GND
(O)	BEZEL KNOB (B1)	-25	(24)----------	115J1-46, C115J1-46
(I)	REMOTE LT SENSOR (H)	-26		
(I)	REMOTE LT SENSOR (L)	C131J1-27		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY UNIT NO. 4 (cont)
DU-870

IO BP	Function	Connector Pin		Connects To
(O)	DLS (H)	C131J1-28	(24)----------S-T-S----	C130J1-29
(O)	DLS (L)	-41	(24)----------S-T-S----	C130J1-42
			GND┘ └GND	
(I)	ALS (H)	-29	(24)----------S-T-S----	C130J1-28
(I)	ALS (L)	-42	(24)----------S-T-S----	C130J1-41
			GND┘ └GND	
	RESERVED	-30		
	RESERVED (HDLC OUT +)	-31		
	RESERVED (HDLC OUT -)	-32		
(B)	BUS 3 TERM	-33		
	RESERVED	-34		
(B)	BUS 2 (H)	-35	(24)----------S-T-S----	FIGURE 8-14
(B)	BUS 2 NO TERM (L)	-36	(24)----------S-T-S----	
			GND┘ └GND	
(O)	DU VALID (GND/OPEN)	-37		
(B)	BUS 1 (H)	-38	(24)----------S-T-S----	FIGURE 8-14
(B)	BUS 1 NO TERM (L)	-39	(24)----------S-T-S----	
			GND┘ └GND	
(O)	REMOTE LT SENSOR GND	-40		
		-41	SEE C131J1-28	
		-42	SEE C131J1-29	
	RESERVED	-43		
	RESERVED	-44		
(B)	BUS 4 TERM	-45		
(O)	DU #4 PB5 (RIGHT PB) (GND/OPEN)	-46	(24)----------	115J1-52, C115J1-52
(O)	DU #4 PB4 (GND/OPEN)	-47	(24)----------	115J1-51, C115J1-51
	RESERVED	-48		
(I)	BUS 2 TERM	-49		
(O)	DU #4 PB3 (GND/OPEN)	-50	(24)----------	115J1-50, C115J1-50
(O)	DU #4 PB2 (GND/OPEN)	-51	(24)----------	115J1-49, C115J1-49
(B)	BUS 1 TERM	-52		
(O)	REM LT SENSOR PWR (H)	-53		
(O)	REM LT SENSOR PWR (L)	C131J1-54		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY UNIT NO. 4 (cont)
DU-870

IO BP	Function		Connector Pin		Connects To
	RESERVED		C131J1-55		
	RESERVED		-56		
	RESERVED		-57		
(B)	BUS 4	(H)	-58	S-T-S	FIGURE 8-14
(B)	BUS 4 NO TERM	(L)	-59	S-T-S (GND) (GND)	
(O)	DU #4 PB1 (GND/OPEN)		-60	(24)	115J1-44, C115J1-44
(B)	WX BUS 2 TERM		-61		
(O)	DU #4 PBO (LEFT PB) (GND/OPEN)		-62	(24)	115J1-43, C115J1-43
(I)	KNOB/PB COMMON		-63	(24)	SIGNAL GND
(B)	WX BUS 1 TERM		-64		
(O)	DU OVERTEMP (GND/OPEN)		-65		
(O)	DU WRAPAROUND A-429 XMTR	(H)	-66	(24) S-T-S	190J1A-16, C190J1A-16. E190J1A-16
(O)		(L)	-79	(24) S-T-S (GND) (GND)	190J1A-15, C190J1A-15, E190J1A-15
	RESERVED		-67		
	RESERVED		-68		
(I)	WX BUS 3	(H)	-69		C131J1-70
(I)	WX BUS 3 NO TERM	(L)	-70		C131J1-69
	RESERVED		-71		
	RESERVED		-72		
	RESERVED		-73		
(I)	WX BUS 2	(H)	-74		C131J1-75
(I)	WX BUS 2 NO TERM	(L)	-75		C131J1-74
	SPARE		-76		
(I)	WX BUS 1	(H)	-77	(24) S-T-S	FIGURE 8-14
(I)	WX BUS 1 NO TERM	(L)	C131J1-78	(24) S-T-S (GND) (GND)	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISPLAY UNIT NO. 4 (cont)
DU-870

IO BP	Function	Connector Pin	Connects To
		C131J1-79 SEE C131J1-66	
(I)	SIGNAL GROUND	-80 (24)	SIGNAL GND
	RESERVED	-81	
	RESERVED	-82	
(I)	WX BUS 3 TERM	-83	
	RESERVED	-84	
	SPARE	-85	
	SPARE	-86	
(I)	PORT SEL 3 (GND/OPEN)	-87 (24)	135J1-48
(I)	PORT SEL 2 (GND/OPEN)	-88 (24)	135J1-47
(I)	PORT SEL 1 (GND/OPEN)	-89	
(I)	I.D. #3 (GND/OPEN)	-90	
(I)	I.D. #2 (GND/OPEN)	-91	
(I)	I.D. #1 (GND/OPEN)	-92 (24)	SIGNAL GND
	RESERVED	-93	
(I)	CHASSIS GND	-94	
	RESERVED	-95	
	RESERVED	-96	
	RESERVED	-97	
	RESERVED	-98	
(I)	SOFTWARE ENABLE (GND/OPEN)	-99	
(I)	SOFTWARE ENABLE (GND/OPEN)	-100	
(P)	+28 VDC POWER	-101 (20)	FIGURE 8-6
(P)	+28 VDC POWER	-102 (20)	
(P)	+28 VDC POWER	-103 (20)	
(P)	+28 VDC POWER RETURN	-104 (20)	DC POWER GND
(P)	+28 VDC POWER RETURN	-105 (20)	
(P)	+28 VDC POWER RETURN	C131J1-106 (20)	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

REVERSIONARY CONTROLLER NO. 2
RC-820

IO BP	Function	Connector Pin		Connects To
(O)	COPILOT PFD BRIGHTNESS POT (H)	C135J1-1	(24)----------S-T-S----	C130J1-1
(O)	(W)	-2	(24)----------S-T-S----	C130J1-14
(O)	(L)	-3	(24)----------S-T-S----	C130J1-13
			NC┘ └GND	
(O)	COPILOT MFD BRIGHTNESS POT (H)	-4	(24)----------S-T-S----	C131J1-1
(O)	(W)	-5	(24)----------S-T-S----	C131J1-14
(O)	(L)	-6	(24)----------S-T-S----	C131J1-13
			NC┘ └GND	
(O)	COPILOT PFD ON (GND/OPEN)	-7		
(O)	COPILOT PFD OFF (GND/OPEN)	-8	(24)----------	C130J1-22
(O)	COPILOT PFD OFF (GND/OPEN)	-9	(24)----------	190J1D-31
(O)	COPILOT PFD OFF (GND/OPEN)	-10	(24)----------	C190J1D-31
(O)	COPILOT PFD OFF (GND/OPEN)	-11	(24)----------	E190J1D-31
(O)	AUTO EICAS REV 3 (GND/OPEN)	-12	(24)----------	135J1-17, E135J1-12
(O)	AUTO EICAS REV 1 (GND/OPEN)	-13	(24)----------	135J1-15, E135J1-17
(O)	AUTO EICAS REV 2 (GND/OPEN)	-14	(24)----------	135J1-16, E135J1-14
(I)	EICAS SG SEL 2 (GND/OPEN)	-15	(24)----------	135J1-13, E135J1-16
(I)	EICAS SG SEL 1 (GND/OPEN)	-16	(24)----------	135J1-14, E135J1-23
(I)	EICAS SG SEL 3 (GND/OPEN)	-17	(24)----------	135J1-12, E135J1-13
(O)	#2 RA REV PB (GND/OPEN)	-18	(24)----------	115J2-6, C115J2-6
	SPARE	-19		
	SPARE	-20		
	SPARE	-21		
	SPARE	-22		
	SPARE	-23		
	SPARE	-24		
	SPARE	-25		
	SPARE	-26		
	SPARE	-27		
	SPARE	-28		
	SPARE	-29		
	SPARE	-30		
	SPARE	-31		
	SPARE	C135J1-32		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

REVERSIONARY CONTROLLER NO. 2 (cont)
RC-820

IO BP	Function	Connector Pin		Connects To
	SPARE	C135J1-33		
	SPARE	-34		
	SPARE	-35		
	SPARE	-36		
	SPARE	-37		
	SPARE	-38		
(O)	SG2 REV (GND/OPEN)	-39	(24)----------	C190J1D-29
(O)	SG2 REV (GND/OPEN)	-40	(24)----------	E190J1D-29
(O)	SG2 REV (GND/OPEN)	-41	(24)----------	190J1D-29
(O)	DU #5 PORT SEL 2 (GND/OPEN)	-42	(24)----------	C130J1-88
	SPARE	-43		
(I)	COPILOT BACKED UP BY IAC 3 (GND/OPEN)	-44	(24)----------	E135J1-40
(O)	DU #5 PORT SEL 3 (GND/OPEN)	-45	(24)----------	C130J1-87
(I)	COPILOT BACKED UP BY IAC 3 (GND/OPEN)	-46	(24)----------	E135J1-45
(O)	DU #4 PORT SEL 2 (GND/OPEN)	-47	(24)----------	C131J1-88
(O)	DU #4 PORT SEL 3 (GND/OPEN)	-48	(24)----------	C131J1-87
(O)	SG 2 TEST PB (GND/OPEN)	-49	(24)----------	C190J1B-51, 115J2-16, C115J2-16
(I)	SIGNAL GROUND	-50	(24)----------	SIGNAL GND
(O)	#2 ADC REV PB (GND/OPEN)	-51	(24)----------	115J1-57, C115J1-57
(O)	#2 IRS REV PB (GND/OPEN)	-52	(24)----------	115J1-56, C115J1-56
(P)	5 VDC LIGHTING	-53	(22)----------	FIGURE 8-7
(P)	DC LIGHTING COMMON	-54	(22)----------	LIGHTING GND
(P)	28 VDC LIGHTING	C135J1-55		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

GLOBAL NAVIGATION SATELLITE SENSOR (GNSSU) NO. 2
GNSSU

IO BP	Function		Connector Pin		Connects To
(O)	GNSSU FAULT		C149J1-1		
(O)	RS-232 XMTR		-2	(24)----------	FIGURE 8-3
(I)	RS-232 RCVR		-3	(24)----------	
(I)	DATA LOADER INPUT	(H)	-4		
(I)	(ARINC 429)	(L)	-15		
(I)	SDI #2		-5		
(I)	SDI #1		-36	(24)----------	C149J1-8
(I)	PRI DADC INPUT	(H)	-6		
(I)	(ARINC 429)	(L)	-7		
(O)	PROG DISCRETE RETURN		-8	(24)----------	C149J1-36
(O)	TIME MARK #2	(H)	-9	(24)----------S-T-S----	17OJ1A-G2
(O)	TIME MARK #2	(L)	-22	(24)----------S-T-S----	17OJ1A-G3
				GND┘ └GND	
(I)	SEC DADC INPUT	(H)	-10		
(I)	(ARINC 429)	(L)	-11		
(I)	DATA LOAD MODE DISCRETE		-12		
(O)	TIME MARK #3	(H)	-13	(24)----------S-T-S----	E17OJ1A-G2
(O)	TIME MARK #3	(L)	-14	(24)----------S-T-S----	E17OJ1A-G3
				GND┘ └GND	
			-15	SEE C149J1-4	
(I)	GEN PURP INPUT #1	(H)	-16		
(I)	(ARINC 429)	(L)	-17		
(I)	PRI IRS/FMC IN	(H)	-18	(24)----------S-T-S----	FIGURE 8-2
(I)	(ARINC 429)	(L)	-37	(24)----------S-T-S----	
				GND┘ └GND	
(O)	TIME MARK #1	(H)	-19	(24)----------S-T-S----	C17OJ1A-F4
(O)	TIME MARK #1	(L)	-20	(24)----------S-T-S----	C17OJ1A-F5
				GND┘ └GND	
(I)	429 OUT HS/LS SELECT		-21		
			C149J1-22	SEE C149J1-9	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

GLOBAL NAVIGATION SATELLITE SENSOR (GNSSU) NO. 2
GNSSU

IO BP	Function		Connector Pin	Connects To
(I)	GEN PURP INPUT #2	(H)	C149J1-23	
(I)	(ARINC 429)	(L)	-41	
(O)	GNSSU OUTPUT #2	(H)	-24 (24)----------S-T-S----	FIGURE 8-2
(O)	(ARINC 429)	(L)	-25 (24)----------S-T-S----	
			GND┘ └GND	
(I)	SEC IRS/FMC IN	(H)	-26 (24)----------S-T-S----	FIGURE 8-2
(I)	(ARINC 429)	(L)	-27 (24)----------S-T-S----	
			GND┘ └GND	
(I)	AIR/GROUND		-28 (24)----------	FIGURE 8-5
(O)	GNSSU OUTPUT #3	(H)	-29 (24)----------S-T-S----	FIGURE 8-2
(O)	(ARINC 429)	(L)	-30 (24)----------S-T-S----	
			GND┘ └GND	
(I)	CMC IN	(H)	-31	
(I)	(ARINC 429)	(L)	-32	
(I)	CHASSIS GROUND		-33	
(P)	DC POWER GND		-34 (22)----------	DC POWER GND
(P)	+28 VDC POWER		-35 (22)----------	FIGURE 8-6
			-36 SEE C149J1-5	
			-37 SEE C149J1-18	
(O)	GNSSU OUTPUT #1	(H)	-38 (24)----------S-T-S----	FIGURE 8-2
(O)	(ARINC 429)	(L)	-39 (24)----------S-T-S----	
			GND┘ └GND	
(I)	DADC IN 419/429 SELECT		-40	
			C149J1-41 SEE C149J1-23	
(I)	ANTENNA		C149J2-1 (*) --O----------O--	GPS ANTENNA
(I)	ANTENNA		C149J2-2 ──────┘ └──	GPS ANTENNA

(*) PIC WIRE AND CABLE PART NO. T556124 FOR 13 FT. LENGTH, FOR SMALLER SECTION USE PART NO. SF-5224

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INERTIAL REFERENCE UNIT NO. 2
LASEREF III

IO BP	Function	Connector Pin		Connects To
(I)	IDENT RESISTOR R1	C170J1A-A1		
	RESERVED	-A2		
	RESERVED	-A3		
	RESERVED	-A4		
	RESERVED	-A5		
	RESERVED	-A6		
(I)	SDI/4 (GND/OPEN)	-A7	(24)----------	FIGURE 8-4
	RESERVED	-A8		
	RESERVED	-A9		
	RESERVED	-A10		
	RESERVED	-A11		
	RESERVED	-A12		
	RESERVED	-A13		
	RESERVED	-A14		
	RESERVED	-A15		
(I)	IDENT RESISTOR R2	-B1		
	RESERVED	-B2		
	RESERVED	-B3		
	RESERVED	-B4		
	RESERVED	-B5		
	RESERVED	-B6		
	RESERVED	-B7		
	RESERVED	-B8		
	RESERVED	-B9		
	RESERVED	-B10		
	RESERVED	-B11		
	RESERVED	-B12		
	RESERVED	-B13		
	RESERVED	-B14		
	RESERVED	C170J1A-B15		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INERTIAL REFERENCE UNIT NO. 2 (cont)
LASEREF III

IO BP	Function	Connector Pin	Connects To
(I)	IDENT RESISTOR R3	C170J1A-C1	
(I)	IDENT RESISTOR COM	-C2	
	RESERVED	-C3	
	RESERVED	-C4	
	RESERVED	-C5	
	RESERVED	-C6	
	RESERVED	-C7	
	RESERVED	-C8	
	RESERVED	-C9	
(B)	ASCB NO. 2 PRI (H)	-C10 ----------S-T-S----	FIGURE 8-1
(B)	ASCB NO. 2 PRI (L)	-C13 ----------S-T-S----	FIGURE 8-1
		GND GND	
	RESERVED	-C11	
	RESERVED	-C12	
		-C13 SEE C170J1A-C10	
	RESERVED	-C14	
	RESERVED	-C15	
(I)	IDENT RESISTOR R4	-D1	
	RESERVED	-D2	
	RESERVED	-D3	
	RESERVED	-D4	
	RESERVED	-D5	
	RESERVED	-D6	
	RESERVED	-D7	
	RESERVED	-D8	
	RESERVED	-D9	
	RESERVED	-D10	
	RESERVED	-D11	
	RESERVED	-D12	
	RESERVED	-D13	
	RESERVED	-D14	
	RESERVED	C170J1A-D15	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INERTIAL REFERENCE UNIT NO. 2 (cont)
LASEREF III

IO BP	Function	Connector Pin		Connects To
(I)	LAB LOCKOUT	C170J1A-E1		
(I)	GNSSU NO. 2 (H)	-E2	S-T-S	FIGURE 8-2
(I)	A-429 RCVR (L)	-E3	S-T-S	FIGURE 8-2
			GND, GND	
(I)	GNSSU NO. 1 (H)	-E4	S-T-S	FIGURE 8-2
(I)	A-429 RCVR (L)	-E5	S-T-S	FIGURE 8-2
			GND, GND	
(I)	CTVAL1	-E6		
(I)	CTVAL2	-E7		
	RESERVED	-E8		
	RESERVED	-E9		
(O)	AC FAIL LOGIC	-E10		
(O)	AC TO BATT XFER	-E11		
	RESERVED	-E12		
	RESERVED	-E13		
	RESERVED	-E14		
	RESERVED	-E15		
	RESERVED	-F1		
	RESERVED	-F2		
	RESERVED	-F3		
(I)	GNSSU 2 TIME MARK 1 (H)	-F4	S-T-S	C149J1-19
(I)	GNSSU 2 TIME MARK 1 (L)	-F5	S-T-S	C149J1-20
			GND, GND	
	RESERVED	-F6		
	RESERVED	-F7		
	RESERVED	-F8		
	RESERVED	-F9		
(B)	ASCB NO. 1 PRI (H)	-F10	S-T-S	FIGURE 8-1
(B)	ASCB NO. 1 PRI (L)	-F13	S-T-S	FIGURE 8-1
			GND, GND	
	RESERVED	-F11		
	RESERVED	-F12		
		-F13	SEE C170J1A-F10	
	RESERVED	-F14		
	RESERVED	C170J1A-F15		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INERTIAL REFERENCE UNIT NO. 2 (cont)
LASEREF III

IO BP	Function	Connector Pin		Connects To
	RESERVED	C170J1A-G1		
(I)	GNSSU 1 TIME MARK 2 (H)	-G2	----------S-T-S----	149J1-9
(I)	GNSSU 1 TIME MARK 2 (L)	-G3	----------S-T-S----	149J1-22
			GND┘ └GND	
	RESERVED	-G4		
	RESERVED	-G5		
	RESERVED	-G6		
	RESERVED	-G7		
	RESERVED	-G8		
(O)	CHARGER INHIBIT	-G9	(24)----------	BATT CHARGER INHIBIT INPUT
	RESERVED	-G10		
	RESERVED	-G11		
	RESERVED	-G12		
	RESERVED	-G13		
	RESERVED	-G14		
	RESERVED	-G15		
	RESERVED	-H1		
	RESERVED	-H2		
(B)	RS-232 DATA XMTR	-H3	(24)----------S-T-S----	FIGURE 8-3
(B)	RS-232 DATA RCVR	-H4	(24)----------S-T-S----	
(B)	RS-232 COMMON	-H7	(24)----------S-T-S----	
			GND┘ └GND	
(B)	RS-232 DTR	-H5		
(B)	RS-232 CTS	-H6		
		-H7	SEE C170J1A-H3	
	RESERVED	-H8		
	RESERVED	-H9		
(I)	MEM ACCESS WR ENABLE	-H10	(24)----------	FIGURE 8-3
	RESERVED	-H11		
	RESERVED	-H12		
	RESERVED	-H13		
	RESERVED	-H14		
	RESERVED	C170J1A-H15		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INERTIAL REFERENCE UNIT NO. 2 (cont)
LASEREF III

IO BP	Function	Connector Pin		Connects To
	RESERVED	C17OJ1A-J1		
	RESERVED	-J2		
	RESERVED	-J3		
	RESERVED	-J4		
	RESERVED	-J5		
	RESERVED	-J6		
	RESERVED	-J7		
	RESERVED	-J8		
(I)	SDI/3 (GND/OPEN)	-J9	(24)----------	FIGURE 8-4
	RESERVED	-J10		
	RESERVED	-J11		
	RESERVED	-J12		
	RESERVED	-J13		
	RESERVED	-J14		
	RESERVED	-J15		
	RESERVED	-K1		
	RESERVED	-K2		
(B)	ASCB NO. 2 BU (H)	-K3	----------S-T-S----┐	FIGURE 8-1
(B)	ASCB NO. 2 BU (L)	-K5	----------S-T-S----┘	
			GND┘ └GND	
	RESERVED	-K4		
		-K5	SEE C17OJ1A-K3	
(I)	BITE WRITE INHIBIT	-K6		
(I)	ASCB 2 CLK (H)	-K7		
(I)	ASCB 2 CLK (L)	-K9		
	RESERVED	-K8		
		-K9	SEE C17OJ1A-K7	
	RESERVED	-K10		
	RESERVED	-K11		
	RESERVED	-K12		
	RESERVED	-K13		
	RESERVED	-K14		
	RESERVED	C17OJ1A-K15		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INERTIAL REFERENCE UNIT NO. 2 (cont)
LASEREF III

IO BP	Function	Connector Pin		Connects To
(O)	LOGIC GROUND	C170J1B-A1	(24)----------	FIGURE 8-4
(I)	IRU ORIENT/1	-A2	(24)----------	FIGURE 8-4
(I)	IRU ORIENT/2	-A3	(24)----------	FIGURE 8-4
	RESERVED	-A4		
	RESERVED	-A5		
	RESERVED	-A6		
(I)	SDI/2 (GND/OPEN)	-A7	(24)----------	FIGURE 8-4
(I)	FMS PRI GEN BUS (H)	-A8		
(I)	A-429 RCVR #1 (L)	-A9		
(I)	REMOTE TEST (GND/OPEN)	-A10	(24)----------	C172J1-W
	RESERVED	-A11		
	RESERVED	-A12		
(I)	ISDU/NDU NO. 3 (H)	-A13		
(I)	A-429 RCVR (L)	-A14		
(O)	BATTERY FAIL ANNUN (GND/OPEN)	-A15	(24)----------	C172J1-Z
	RESERVED	-B1		
	RESERVED	-B2		
	RESERVED	-B3		
	RESERVED	-B4		
	RESERVED	-B5		
	RESERVED	-B6		
	RESERVED	-B7		
	RESERVED	-B8		
	RESERVED	-B9		
	RESERVED	-B10		
	RESERVED	-B11		
	RESERVED	-B12		
	RESERVED	-B13		
	RESERVED	-B14		
	RESERVED	C170J1B-B15		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INERTIAL REFERENCE UNIT NO. 2 (cont)
LASEREF III

IO BP	Function	Connector Pin	Connects To
	RESERVED	C170J1B-C1	
	RESERVED	-C2	
	RESERVED	-C3	
	RESERVED	-C4	
(I)	FMS SEC GEN BUS (H)	-C5	
(I)	A-429 RCVR #2 (L)	-C6	
	RESERVED	-C7	
	RESERVED	-C8	
	RESERVED	-C9	
	RESERVED	-C10	
	RESERVED	-C11	
	RESERVED	-C12	
	RESERVED	-C13	
	RESERVED	-C14	
	RESERVED	-C15	
	RESERVED	-D1	
(O)	FAULT ANNUNCIATOR (GND/OPEN)	-D2 (24)----------	C172J1-P
(O)	ATT ANNUNCIATOR (GND/OPEN)	-D3	
	RESERVED	-D4	
	RESERVED	-D5	
	RESERVED	-D6	
	RESERVED	-D7	
	RESERVED	-D8	
	RESERVED	-D9	
	RESERVED	-D10	
	RESERVED	-D11	
	RESERVED	-D12	
	RESERVED	-D13	
	RESERVED	-D14	
	RESERVED	C170J1B-D15	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INERTIAL REFERENCE UNIT NO. 2 (cont)
LASEREF III

IO BP	Function	Connector Pin		Connects To
(O)	NO COOLING AIR ANNUN (GND/OPEN)	C170J1B-E1	(24)----------	C172J1-Y
(O)	ON DC ANNUNCIATOR (GND/OPEN)	-E2		
(O)	NAV RDY ANNUNCIATOR (GND/OPEN)	-E3	(24)----------	C172J1-X
	RESERVED	-E4		
(O)	IRS DATA OUT #2 (H)	-E5		
(O)	(ARINC 429 XMTR) (L)	-E6		
	RESERVED	-E7		
	RESERVED	-E8		
	RESERVED	-E9		
	RESERVED	-E10		
	RESERVED	-E11		
	RESERVED	-E12		
	RESERVED	-E13		
	RESERVED	-E14		
	RESERVED	-E15		
(I)	MODE DISCRETE/1	-F1	(24)----------	C172J1-e
(I)	MODE DISCRETE/2	-F2	(24)----------	C172J1-f
(O)	ALIGN ANNUNCIATOR (GND/OPEN)	-F3	(24)----------	C172J1-a
	RESERVED	-F4		
	RESERVED	-F5		
	RESERVED	-F6		
	RESERVED	-F7		
	RESERVED	-F8		
	RESERVED	-F9		
	RESERVED	-F10		
	RESERVED	-F11		
	RESERVED	-F12		
	RESERVED	-F13		
(O)	IRS DATA OUT #4 (H)	-F14	(24)----------S-T-S----⎫	FIGURE 8-2
(O)	(ARINC 429 XMTR) (L)	C170J1B-F15	(24)----------S-T-S----⎭	
			GND┘ └GND	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INERTIAL REFERENCE UNIT NO. 2 (cont)
LASEREF III

IO BP	Function		Connector Pin	Connects To
	RESERVED		C170J1B-G1	
	RESERVED		-G2	
	RESERVED		-G3	
	RESERVED		-G4	
	RESERVED		-G5	
	RESERVED		-G6	
(O)	IRS DATA OUT #1	(H)	-G7	
(O)	(ARINC 429 XMTR)	(L)	-G8	
	RESERVED		-G9	
	RESERVED		-G10	
	RESERVED		-G11	
	RESERVED		-G12	
	RESERVED		-G13	
(O)	IRS DATA OUT #5	(H)	-G14	
(O)	(ARINC 429 XMTR)	(L)	-G15	
	RESERVED		-H1	
	RESERVED		-H2	
	RESERVED		-H3	
	RESERVED		-H4	
	RESERVED		-H5	
	RESERVED		-H6	
	RESERVED		-H7	
	RESERVED		-H8	
	RESERVED		-H9	
	RESERVED		-H10	
	RESERVED		-H11	
	RESERVED		-H12	
	RESERVED		-H13	
(O)	IRS DATA OUT #6	(H)	-H14	
(O)	(ARINC 429 XMTR)	(L)	C170J1B-H15	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INERTIAL REFERENCE UNIT NO. 2 (cont)
LASEREF III

IO BP	Function	Connector Pin		Connects To
	RESERVED	C170J1B-J1		
	RESERVED	-J2		
	RESERVED	-J3		
	RESERVED	-J4		
	RESERVED	-J5		
(I)	DADC 575/429 SEL	-J6	(24)----------	FIGURE 8-4
	RESERVED	-J7		
	RESERVED	-J8		
(I)	SDI/1 (GND/OPEN)	-J9	(24)----------	FIGURE 8-4
(I)	SEC DADC DATA (H)	-J10		
(I)	A-429 RCVR #5 (L)	-J11		
	RESERVED	-J12		
	RESERVED	-J13		
	RESERVED	-J14		
(O)	ON BATTERY ANNUN	-J15	(24)----------	C172J1-g
	RESERVED	-K1		
	RESERVED	-K2		
	RESERVED	-K3		
(I)	PRI DADC DATA (H)	-K4		
(I)	A-429 RCVR #4 (L)	-K5		
	RESERVED	-K6		
	RESERVED	-K7		
	RESERVED	-K8		
	RESERVED	-K9		
	RESERVED	-K10		
	RESERVED	-K11		
(O)	IRS DATA OUT #3 (H)	-K12		
(O)	(ARINC 429 XMTR) (L)	-K13		
	RESERVED	-K14		
	RESERVED	C170J1B-K15		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INERTIAL REFERENCE UNIT NO. 2 (cont)
LASEREF III

IO BP	Function	Connector Pin		Connects To
(P)	115 VAC INPUT	C17OJ1C-1		
(P)	24 VDC BATT INPUT	-2	(20)----------	FIGURE 8-6
	RESERVED	-3		
(P)	28 VDC ESSENTIAL	-4	(20)----------	FIGURE 8-6
(P)	115 VAC RETURN	-5		
(P)	28 VDC MSU POWER OUTPUT	-6		
(P)	28 VDC PRIMARY POWER	-7	(20)----------	FIGURE 8-6
(P)	28 VDC/BATTERY POWER RTN	-8	(20)----------	DC POWER GND
(P)	ANNUNCIATOR POWER OUT	-9	(22)----------	C172J1-L
(P)	ANNUNCIATOR POWER IN	-10	(22)----------	FIGURE 8-7
(I)	CHASSIS GND	-11		
	RESERVED	-12		
	RESERVED	C17OJ1C-13		
	TRAY FAN POWER (RED)		(22)----------	C17OJ1C-7
	TRAY FAN POWER GND (BLK)		(22)----------	DC GND

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

IRS MODE SELECTION UNIT NO. 2
MSU

IO BP	Function	Connector Pin	Connects To
(I)	CHASSIS GND	C172J1-A	
	SPARE	-B	
	SPARE	-C	
	SPARE	-D	
	SPARE	-E	
	SPARE	-F	
	SPARE	-G	
	SPARE	-H	
	SPARE	-J	
(P)	ON BATT ANNUN PWR INPUT	-K (24)----------	FIGURE 8-6
(P)	ANNUN PWR	-L (22)----------	C170J1C-9
(P)	+28 VDC (IRU BLOWER)	-M	
(O)	IRU BLOWER CONTROL (28V/OPEN)	-N	
(I)	FAULT ANNUN (GND/OPEN)	-P (24)----------	C170J1B-D2
	SPARE	-R	
(P)	0-5 VDC PANEL LIGHTING (H)	-S (22)----------	FIGURE 8-7
(P)	0-5 VDC PANEL LIGHTING (L)	-T (22)----------	LIGHTING GND
(I)	LOGIC GND	-U (24)----------	FIGURE 8-4
(I)	TEST GND	-V (24)----------	SIGNAL GND
(O)	TEST SW (GND/OPEN)	-W (24)----------	C170J1B-A10
(I)	NAV RDY ANNUN (GND/OPEN)	-X (24)----------	C170J1B-E3
(I)	NO AIR ANNUN (GND/OPEN)	-Y (24)----------	C170J1B-E1
(I)	BATT FAIL ANNUN (GND/OPEN)	-Z (24)----------	C170J1B-A15
(I)	ALIGN ANNUN (GND/OPEN)	-a (24)----------	C170J1B-F3
	SPARE	-b	
	SPARE	-c	
	SPARE	-d	
(O)	MODE SELECT 1	-e (24)----------	C170J1B-F1
(O)	MODE SELECT 2	-f (24)----------	C170J1B-F2
(I)	ON BATT ANNUN (GND/OPEN)	-g (24)----------	C170J1B-J15
(I)	ANNUN TST (GND/OPEN)	-h (24)----------	FIGURE 8-7
	SPARE	C172J1-j	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 2
IC-800

IO BP	Function	Connector Pin		Connects To
(I)	SIGNAL GROUND	C190J1A-1	(22)----------	SIGNAL GND
(O)	+28V ELEV TRIM CLUTCH OUT	-2		
(I)	IAC IDENT 2 (GND/OPEN)	-3		
	FGC RESERVED	-4		
(B)	ASCB NO. 2 BU (H)	-5	----------S-T-S----	FIGURE 8-1
(B)	ASCB NO. 2 BU (L)	-7	----------S-T-S----	
			GND┘ └GND	
(B)	BC RS-232 DATA RCVR	-6	(24)----------S-T-S----	FIGURE 8-3
(B)	BC RS-232 DATA XMTR	-77	(24)----------S-T-S----	
(B)	BC/DL RS-232 COMMON	-96	(24)----------S-T-S----	
			GND┘ └GND	
		-7	SEE C190J1A-5	
(P)	28 VDC AP SERVO PWR RTN	-8	(22)----------	DC POWER GND
(P)	28 VDC AP SERVO PWR RTN	-9	(22)----------	DC POWER GND
	BC RESERVED	-10		
(P)	28 VDC AP SERVO POWER	-11	(22)----------	FIGURE 8-6
(P)	28 VDC AP SERVO POWER	-12	(22)----------	
(O)	SPARE (H)	-13		
(O)	IOP RS-422 TX (L)	-14		
(I)	DU #4 WRAPAROUND (L)	-15	(24)----------S-T-S----	C131J1-79, 190J1A-15, E190J1A-15
	A-429 RCVR #12			
(I)	(H)	-16	(24)----------S-T-S----	C131J1-66, 190J1A-16 E190J1A-16
			GND┘ └GND	
(I)	TAG SYNC IN #1 (OPEN/GND)	-17	(24)----------	190J1C-70, E190J1A-17
(I)	TAG SYNC IN #3 (OPEN/GND)	-18	(24)----------	190J1A-18, E190J1C-70
(I)	CDU SYNC IN #1 (OPEN/GND)	-19	(24)----------	190J1C-69, E190J1A-19
(O)	GENERAL BUS #1 (H)	-20	(24)----------S-T-S----	FIGURE 8-2
(O)	A-429 XMTR #1 (L)	C190J1A-21	(24)----------S-T-S----	
			GND┘ └GND	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 2 (cont)
IC-800

IO BP	Function	Connector Pin	Connects To
	SPARE CARD RESERVED	C190J1A-22	
	SPARE CARD RESERVED	-23	
(O)	DU BUS TX #2 (H)	-24 S-T-S	FIGURE 8-14
(O)	DU BUS TX #2 (L)	-25 S-T-S	FIGURE 8-14
		GND └GND	
(I)	LRN #2 (H)	-26 (24) S-T-S	FIGURE 8-2
(I)	A-429 RCVR #15 (L)	-27 (24) S-T-S	FIGURE 8-2
		GND └GND	
(I)	DU #3 WRAPAROUND (L)	-28 (24) S-T-S	132J1-79, 190J1A-28, E190J1A-28
	A-429 RCVR #11		
(I)	(H)	-29 (24) S-T-S	132J1-66, 190J1A-29, E190J1A-29
		GND └GND	
(I)	SPARE (H)	-30	
(I)	IOP RS-422 RX (L)	-31	
(I)	CDU SYNC IN #3 (GND/OPEN)	-32 (24)	190J1A-32, E190J1C-69
(I)	SPARE FMS DISC IN (GND/OPEN)	-33	
(I)	SPARE FMS DISC IN (GND/OPEN)	-34	
(I)	SPARE FWC DISC IN (GND/OPEN)	-35	
(I)	WX CONTROL DATA #1 (L)	-36 (24) S-T-S	59J1-n, 190J1A-36, E190J1A-36
	IOP RS-422 RX		
(I)	(H)	-37 (24) S-T-S	59J1-m, 190J1A-37, E190J1A-37
		GND └GND	
	SPARE CARD RESERVED	-38	
	SPARE CARD RESERVED	-39	
(I)	MLS #2 (H)	-40 (24) S-T-S	FIGURE 8-2
(I)	A-429 RCVR #22 (L)	-41 (24) S-T-S	FIGURE 8-2
		GND └GND	
(I)	DU #2 WRAPAROUND (H)	-42 (24) S-T-S	131J1-66, 190J1A-42, E190J1A-42
	A-429 RCVR #10		
(I)	(L) C190J1A-43	(24) S-T-S	131J1-79, 190J1A-43, E190J1A-43
		GND └GND	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 2 (cont)
IC-800

IO BP	Function	Connector Pin	Connects To
(I)	SPARE FWC DISC IN (GND/OPEN)	C190J1A-44	
(O)	FMS DATA LOADER DATA OUT (H)	-45 (24) S-T-S	123J1-H, 190J1A-45, E190J1A-45
(O)	FMS RS-422 TX (L)	-46 (24) S-T-S (GND)	123J1-G, 190J1A-46, E190J1A-46
(B)	FMS DATA LOADER RS-232 TX	-47 (24) S-T-S	FIGURE 8-3
(B)	FMS DATA LOADER RS-232 RX	-48 (24) S-T-S	FIGURE 8-3
(B)	BC/DL RS-232 COMMON	-96 (24) S-T-S (GND)	FIGURE 8-3
(I)	DISPLAY CONTROL #1 (L)	-49 (24) S-T-S	115J1-8, E190J1A-49
(I)	IOP RS-422 RX (H)	-50 (24) S-T-S (GND)	115J1-7, E190J1A-50
	SPARE CARD RESERVED	-51	
	SPARE CARD RESERVED	-52	
(I)	V/L #2 (H)	-53 (24) S-T-S	FIGURE 8-2
(I)	A-429 RCVR #21 (L)	-54 (24) S-T-S (GND)	FIGURE 8-2
(I)	SPARE (H)	-55	
(I)	IOP RS-422 RX (L)	-56	
(I)	IAC IDENT 1 (GND/OPEN)	-57 (24)	SIGNAL GND
(O)	SPARE (H)	-58	
(O)	IOP RS-422 TX (L)	-59	
(I)	IAC IDENT 0 (GND/OPEN)	-60	
(I)	WX CONTROL DATA #2 IOP RS-422 RX (H)	-61 (24) S-T-S	59J1-e, 190J1A-61, E190J1A-61
(I)	(L)	-62 (24) S-T-S (GND)	59J1-f, 190J1A-62, E190J1A-62
(I)	FMS DATA LOADER DATA IN (H)	-63 (24) S-T-S	123J1-T, 190J1A-63, E190J1A-63
(I)	FMS RS-422 RX (L)	C190J1A-64 (24) S-T-S (GND)	123J1-S, 190J1A-64, E190J1A-64

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 2 (cont)
IC-800

IO BP	Function		Connector Pin		Connects To
(I)	FMS DATA LOADER CTS IN	(H)	C190J1A-65		
(I)	FMS RS-422 RX	(L)	-66		
(I)	ADF #2	(H)	-67	(24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #19	(L)	-68	(24)----------S-T-S---- GND└┘ └─GND	FIGURE 8-2
(I)	HEAD UP DISPLAY	(H)	-69	(24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #8	(L)	-70	(24)----------S-T-S---- GND└┘ └─GND	FIGURE 8-2
	FGC RESERVED		-71		
(I)	SPARE FGC DISC IN (GND/OPEN)		-72		
(I)	SPARE FWC DISC IN (GND/OPEN)		-73		
(I)	SPARE FWC DISC IN (GND/OPEN)		-74		
(I)	SPARE FWC DISC IN (GND/OPEN)		-75		
(I)	SPARE FWC DISC IN (GND/OPEN)		-76		
			-77	SEE C190J1A-6	
	BC RESERVED		-78		
(I)	SPARE FGC DISC IN (28V/OPEN)		-79		
(I)	DME #2	(H)	-80	(24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #20	(L)	-81	(24)----------S-T-S---- GND└┘ └─GND	FIGURE 8-2
(I)	SPARE FWC DISC IN (28V/OPEN)		-82		
(O)	FMS DATA LOADER DTR OUT	(L)	-83		
			-84		
(O)	FMS RS-422 TX	(H)	-85		
(I)	SPARE FGC DISC IN (GND/OPEN)		-86		
(I)	FGC AP DISCONNECT (GND/OPEN)		-87	(24)----------	FIGURE 8-11
(I)	TRIM DISCONNNECT (OPEN/GND)		-88	(24)----------	FIGURE 8-9
	FGC RESERVED		C190J1A-89		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 2 (cont)
IC-800

IO BP	Function	Connector Pin	Connects To
(I)	CROSS SERVOS OFF IN (28V/OPEN)	C190J1A-90 (24)	190J1D-75
(I)	CROSS SERVO PWR OFF IN (28V/OPEN)	-91 (24)	190J1D-76
(I)	CROSS CHANNEL SYNC IN (GND/OPEN)	-92 (24)	190J1C-55
(I)	CROSS AP PWR SENSE IN (28 V/OPEN)	-93 (24)	190J1C-44
(I)	DU #1 WRAPAROUND A-429 RCVR #9 (H)	-94 (24) S-T-S	130J1-66, 190J1A-94, E190J1A-94
(I)	(L)	-95 (24) S-T-S GND GND	130J1-79, 190J1A-95, E190J1A-95
		-96 SEE C190J1A-6, C190J1A-47	
(O)	FMS DATA LOADER CLOCK OUT (H)	-97 (24) S-T-S	123J1-K, 190J1A-97 E190J1A-97
(O)	FMS RS-422 TX (L)	-98 (24) S-T-S GND GND	123J1-J, 190J1A-98, E190J1A-98
(O)	SPARE (H)	-99 (24) S-T-S	FIGURE 8-2
(O)	A-429 XMTR #6 (L)	-101 (24) S-T-S GND GND	FIGURE 8-2
(I)	GC PANEL BUTTON ARM (GND/OPEN)	-100 (24)	11J2-47
		-101 SEE C190J1A-99	
(I)	YD DISCONNECT (OPEN/GND)	-102 (24)	SIGNAL GROUND
	FGC RESERVED	-103	
(O)	TRIM RATE CMD OUT (H)	-104	
(O)	TRIM RATE CMD OUT (L)	-105	
(I)	CROSS YD PWR SENSE IN (28 V/OPEN)	C190J1A-106 (24)	190J1C-4

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 2 (cont)
IC-800

IO BP	Function	Connector Pin		Connects To
(I)	SPARE FMS DISC IN (GND/OPEN)	C190J1B-1		
(P)	YD POWER RETURN	-2	(22)	DC POWER GND
(P)	YD POWER RETURN	-3	(22)	
(P)	28 VDC AIRCRAFT (L)	-4		
(P)	RAM BATTERY (H)	-5		
(I)	FWC RESET (GND/OPEN)	-6		
	FGC RESERVED	-7		
(P)	+28V YD SERVO POWER	-8	(22)	FIGURE 8-6
(P)	+28V YD SERVO POWER	-9	(22)	
(I)	PITCH WHEEL #1 (L)	-10	(24) S-T-S	11J1-44, 190J1B-10
(I)	PITCH WHEEL #1 (H)	-11	(24) S-T-S (GND)	11J1-43, 190J1B-11
(I)	SPARE FMS DISC IN (GND/OPEN)	-12		
(B)	ASCB NO. 1 PRI (H)	-13	S-T-S	FIGURE 8-1
(B)	ASCB NO. 1 PRI (L)	-15	S-T-S (GND)	
	RSB RESERVED	-14		
		-15	SEE C190J1B-13	
	RSB RESERVED	-16		
	RSB RESERVED	-17		
	RSB RESERVED	-18		
	RSB RESERVED	-19		
	RSB RESERVED	-20		
	RSB RESERVED	-21		
	RSB RESERVED	-22		
	RSB RESERVED	-23		
	RSB RESERVED	-24		
	RSB RESERVED	-25		
	RSB RESERVED	-26		
(O)	WX 2 RANGE UP OUT (GND/OPEN)	-27	(24)	C61J1-L, 190J1B-27, E190J1B-27
(O)	WX 2 RANGE DN OUT (GND/OPEN)	-28	(24)	C61J1-N, 190J1B-28, E190J1B-28
(O)	WX 1 RANGE UP OUT (GND/OPEN)	C190J1B-29	(24)	61J1-L, 190J1B-29, E190J1B-29

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 2 (cont)
IC-800

IO BP	Function	Connector Pin		Connects To
(O)	WX 1 RANGE DN OUT (GND/OPEN)	C190J1B-30	(24)----------	61J1-N, 190J1B-30, E190J1B-30
(O)	SPARE DIO DISC OUT (28V/OPEN)	-31		
(O)	SPARE DIO DISC OUT (28V/OPEN)	-32		
	RSB RESERVED	-33		
(O)	AP OFF HORN (GND/OPEN)	-34	(24)----------	FIGURE 8-15
	RSB RESERVED	-35		
(I)	DP1 RESET (GND/OPEN)	-36		
(O)	SPARE DIO DISC OUT (GND/OPEN)	-37		
(I)	SPARE DIO DISC IN (GND/OPEN)	-38		
(O)	SPARE DIO DISC OUT (GND/OPEN)	-39		
	RSB RESERVED	-40		
(I)	CAUTION RESET (GND/OPEN)	-41	(24)----------	FIGURE 8-11
(I)	CDU VALID (GND/OPEN)	-42	(24)----------	C120J1-i
(I)	SEC RADIO TUNE (GND/OPEN)	-43		
(O)	ALT ALERT HORN (GND/OPEN)	-44	(24)----------	FIGURE 8-15
(I)	WX ON (GND/OPEN)	-45	(24)----------	59J1-U, 61J1-R, C61J1-R, 190J1B-45, E190J1B-45
(O)	WARNING ANNUN (GND/OPEN)	-46		
(I)	DU 2 REV (GND/OPEN)	-47		
(O)	RAD ALT TEST (GND/OPEN)	-48	(24)----------	FIGURE 8-13
(I)	EICAS RIGHT SEL (GND/OPEN)	-49	(24)----------	E135J1-9
(O)	DAU1 REV (GND/OPEN)	-50	(24)----------	FIGURE 8-2
(I)	SG TEST IN (GND/OPEN)	-51	(24)----------	C135J1-49, 115J2-16, C115J2-16
(I)	SPARE DIO DISC IN (GND/OPEN)	-52		
	RSB RESERVED	-53		
	BC RESERVED	-54		
	BC RESERVED	-55		
	BC RESERVED	-56		
(I)	BC IDENT 2 (GND/OPEN)	C190J1B-57	(24)----------	SIGNAL GND

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 2 (cont)
IC-800

IO BP	Function	Connector Pin		Connects To
	RSB RESERVED	C190J1B-58		
	SPARE CARD RESERVED	-59		
(I)	SPARE DIO DISC IN (GND/OPEN)	-60		
(I)	SPARE DIO DISC IN (GND/OPEN)	-61		
(I)	SPARE DIO DISC IN (GND/OPEN)	-62		
(I)	SPARE DIO DISC IN (GND/OPEN)	-63		
(I)	SPARE DIO DISC IN (GND/OPEN)	-64		
(I)	SPARE DIO DISC IN (GND/OPEN)	-65		
	FGC RESERVED	-66		
(O)	IAC OVERHEAT (GND/OPEN)	-67	(24)----------	190J1D-48, C190J1D-48, E190J1D-48
(I)	PRI RADIO TUNE (GND/OPEN)	-68		
(I)	SPARE DIO DISC IN (28V/OPEN)	-69		
(B)	RSB PRIMARY (H)	-70		
(B)	RSB PRIMARY (L)	-71		
(I)	SPARE FWC DISC IN (28V/OPEN)	-72		
	RSB RESERVED	-73		
	RSB RESERVED	-74		
(O)	AWP MASTER OUT (GND/OPEN)	-75		
(O)	AURAL WARNING A (H)	-76		
(O)	AURAL WARNING A (L)	-77		
	SPARE CARD RESERVED	-78		
	SPARE CARD RESERVED	-79		
(I)	FMS INITIATE RECEIVE (GND/OPEN)	-80		
(I)	FMS INITIATE TRANSFER (GND/OPEN)	-81		
(O)	SPARE DIO DISC OUT (GND/OPEN)	-82		
(O)	SPARE DIO DISC OUT (GND/OPEN)	C190J1B-83		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 2 (cont)
IC-800

IO BP	Function	Connector Pin	Connects To
(I)	SPARE DIO DISC IN (GND/OPEN)	C190J1B-84	
(I)	SPARE DIO DISC IN (GND/OPEN)	-85	
(I)	RESERVED (CROSS-SIDE AWP MASTER) (GND/OPEN)	-86	
(I)	PILOT STICKSHAKER (28V/OPEN)	-87 (24)----------	FIGURE 8-12
(I)	SPARE DIO DISC IN (28V/OPEN)	-88	
(I)	RSB RESET (GND/OPEN)	-89	
(I)	DP2 RESET (GND/OPEN)	-90	
(I)	RESERVED (MASTER WARNING HORN) (GND/OPEN)	-91	
	SPARE CARD RESERVED	-92	
	SPARE CARD RESERVED	-93	
(O)	CONFIG MODULE 5V POWER	-94 (24)----------S-T-S----	C199J1-1
(O)	CONFIG MODULE RETURN	-95 (24)----------S-T-S----	C199J1-2
(I)	CONFIG MODULE DATA RX	-96 (24)----------S-T-S----	C199J1-3
		GND┘ └NC	
(I)	SPARE DIO DISC IN (GND/OPEN)	-97	
(I)	RESERVED (WARNING RESET) (GND/OPEN)	-98	
(I)	RESERVED (ON-SIDE AWP MASTER) (GND/OPEN)	-99	
(I)	SPARE DIO DISC IN (28V/OPEN)	-100	
(I)	CROSS +28V YD CLUTCH IN	-101	
(I)	AT DISCONNECT (GND/OPEN)	-102 (24)----------	FIGURE 8-11
(I)	FGC RESET (GND/OPEN)	-103	
(B)	FMS RS-232 COMMON	-104 (24)----------S-T-S----	FIGURE 8-3
(B)	FMS RS-232 DATA RX	-105 (24)----------S-T-S----	
(B)	FMS RS-232 DATA TX	C190J1B-106 (24)----------S-T-S----	
		GND┘ └GND	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 2 (cont)
IC-800

IO BP	Function	Connector Pin		Connects To
(O)	AIL SERVO DRIVE (CCW DRUM ROTATION) (H)	C190J1C-1	(20)----------S-T-S----	12J1-A, 190J1C-1
(O)	(L)	-2	(20)----------S-T-S---- GND	12J1-B, 190J1C-2
(O)	ELEV SERVO DRIVE (CCW DRUM ROTATION) (H)	-3	(20)----------S-T-S----	13J1-A, 190J1C-3
(O)	(L)	-5	(20)----------S-T-S---- GND	13J1-B, 190J1C-5
(O)	CROSS YD PWR SENSE OUT (28 V/OPEN)	-4	(24)----------	190J1A-106
		-5	SEE C190J1C-3	
(O)	TRIM UP (28V/GND)	-6	(22)----------	FIGURE 8-9
(O)	SPARE (H)	-7		
(O)	A-429 XMTR #5 (L)	-9		
(O)	TRIM DN (28V/GND)	-8	(22)----------	FIGURE 8-9
		-9	SEE C190J1C-7	
(O)	+28V YD BRAKE OUT	-10	(22)----------S---S---- GND	14J1-E, 190J1C-10, 190J1D-91, C190J1D-91, E190J1D-91
	IOP RESERVED	-11		
(O)	+28V AP CLUTCH OUT	-12	(20)----------S---S---- GND	12J1-G, 13J1-G, 190J1C-12, 190J1D-89, C190J1D-89, E190J1D-89
(O)	YD SERVO DRIVE (L)	-13	(20)----------S-T-S----	14J1-B, 190J1C-13
(O)	YD SERVO DRIVE (H)	-26	(20)----------S-T-S---- GND	14J1-A, 190J1C-26
(O)	GENERAL BUS #2 (H)	-14	(24)----------S-T-S----	FIGURE 8-2
(O)	A-429 XMTR #3 (L)	-15	(24)----------S-T-S---- GND	FIGURE 8-2
(I)	LRN #3 (H)	-16	(24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #16 (L)	C190J1C-17	(24)----------S-T-S---- GND	FIGURE 8-2

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 2 (cont)
IC-800

IO BP	Function		Connector Pin		Connects To
(I)	AFIS	(H)	C190J1C-18	(24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #14	(L)	-19	(24)----------S-T-S----	
				GND┘ └GND	
(I)	DU #5 WRAPAROUND / A-429 RCVR #13	(H)	-20	(24)----------S-T-S----	C130J1-66, 190J1C-20, E190J1C-20
(I)		(L)	-21	(24)----------S-T-S----	C130J1-79, 190J1C-21, E190J1C-21
				GND┘ └GND	
(I)	SPARE FGC DISC IN (GND/OPEN)		-22		
(I)	SPARE FGC DISC IN (GND/OPEN)		-23		
(I)	SPARE	(L)	-24	(24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #18	(H)	-25	(24)----------S-T-S----	
				GND┘ └GND	
			-26	SEE C190J1C-13	
	SPARE CARD RESERVED		-27		
(I)	MLS #1	(H)	-28	(24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #4	(L)	-29	(24)----------S-T-S----	
				GND┘ └GND	
(I)	EICAS LEFT SEL (GND/OPEN)		-30	(24)----------	E135J1-5
(I)	PFD 1 OFF (GND/OPEN)		-31	(24)----------	135J1-9
(O)	AURAL WARNING OUT B	(H)	-32		
(O)	AURAL WARNING OUT B	(L)	-33		
	RSB RESERVED		-34		
	RSB RESERVED		-35		
(B)	RSB SECONDARY (H)		-36		
(B)	RSB SECONDARY (L)		-37		
(I)	DISPLAY CONTROL #2	(H)	-38	(24)----------S-T-S----	C115J1-4
(I)	IOP RS-422 RX	(L)	-39	(24)----------S-T-S----	C115J1-5
				GND┘ └GND	
	FGC RESERVED		-40		
(I)	SPARE FGC DISC IN (28V/OPEN)		-41		
	FGC RESERVED		-42		
	FGC RESERVED		C190J1C-43		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 2 (cont)
IC-800

IO BP	Function		Connector Pin		Connects To
(O)	CROSS AP PWR SENSE OUT (28 V/OPEN)		C190J1C-44	(24)----------	190J1A-93
	FGC RESERVED		-45		
	FGC RESERVED		-46		
	FGC RESERVED		-47		
(O)	FMS CDU DTR OUT	(L)	-48	(24)----------S-T-S----	C120J1-V
(O)	FMS RS-422 TX	(H)	-49	(24)----------S-T-S----	C120J1-U
				GND┘ └GND	
	FGC RESERVED		-50		
(O)	FMS CDU DATA OUT	(L)	-51	(24)----------S-T-S----	C120J1-T
(O)	FMS RS-422 TX	(H)	-52	(24)----------S-T-S----	C120J1-S
				GND┘ └GND	
	SPARE CARD RESERVED		-53		
	SPARE CARD RESERVED		-54		
(O)	CROSS-CHANNEL SYNC OUT (GND/OPEN)		-55	(24)----------	190J1A-92
(I)	SPARE FGC DISC IN (28V/OPEN)		-56		
	FGC RESERVED		-57		
(I)	FMS CDU CTS IN	(L)	-58	(24)----------S-T-S----	C120J1-R
(I)	FMS RS-422 RX	(H)	-59	(24)----------S-T-S----	C120J1-P
				GND┘ └GND	
(I)	SPARE FGC ANALOG IN (H)		-60		
(I)	SPARE FGC ANALOG IN (L)		-61		
	FGC RESERVED		-62		
(O)	FMS CDU CLOCK OUT	(L)	-63	(24)----------S-T-S----	C120J1-X
(O)	FMS RS-422 TX	(H)	-64	(24)----------S-T-S----	C120J1-W
				GND┘ └GND	
(I)	TCAS	(H)	-65	(24)----------S-T-S----┐	FIGURE 8-2
(I)	A-429 RCVR #6	(L)	-66	(24)----------S-T-S----┘	
				GND┘ └GND	
	SPARE CARD RESERVED		-67		
(O)	SPARE FMS DISC OUT (GND/OPEN)		-68		
(O)	CDU SYNC OUT (GND/OPEN)		-69	(24)----------	190J1A-19, E190J1A-32
(O)	TAG SYNC OUT (GND/OPEN)		C190J1C-70	(24)----------	190J1A-17, E190J1A-18

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 2 (cont)
IC-800

IO BP	Function	Connector Pin		Connects To
(I)	FMS CDU DATA IN (L)	C190J1C-71	(24)----------S-T-S----	C120J1-N
(I)	FMS RS-422 RX (H)	-72	(24)----------S-T-S----	C120J1-M
			GND┘ └GND	
	SPARE CARD RESERVED	-73		
	SPARE CARD RESERVED	-74		
	SPARE CARD RESERVED	-75		
(I)	LIGHTNING SENSOR (H)	-76	(24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #7 (L)	-77	(24)----------S-T-S----	
			GND┘ └GND	
(O)	SPARE (H)	-78	(24)----------S-T-S----	FIGURE 8-2
(O)	A-429 XMTR #2 (L)	-79	(24)----------S-T-S----	
			GND┘ └GND	
	SPARE CARD RESERVED	-80		
	SPARE CARD RESERVED	-81		
(O)	SPARE FMS DISC OUT (GND/OPEN)	-82		
(O)	SPARE FMS DISC OUT (GND/OPEN)	-83		
(O)	SPARE FMS DISC OUT (GND/OPEN)	-84		
(O)	DU HDLC TX #1 (H)	-85	----------S-T-S----	FIGURE 8-14
(O)	DU HDLC TX #1 (L)	-86	----------S-T-S----	
			GND┘ └GND	
	SPARE CARD RESERVED	-87		
	SPARE CARD RESERVED	-88		
	SPARE CARD RESERVED	-89		
	SPARE CARD RESERVED	-90		
	SPARE CARD RESERVED	-91		
	SPARE CARD RESERVED	-92		
(I)	SIGNAL GROUND	-93	(24)----------	SIGNAL GND
	SPARE CARD RESERVED	-94		
(O)	SPARE (H)	-95		
(O)	IOP RS-422 TX (L)	-96		
(I)	LRN #1 (H)	-97	(24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #5 (L)	C190J1C-98	(24)----------S-T-S----	
			GND┘ └GND	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 2 (cont)
IC-800

IO BP	Function	Connector Pin		Connects To
(I)	V/L #1	(L)	C190J1C-99 (24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #3	(H)	-100 (24)----------S-T-S----	FIGURE 8-2
			GND--┘ └--GND	
(I)	DME #1	(L)	-101 (24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #2	(H)	-102 (24)----------S-T-S----	FIGURE 8-2
			GND--┘ └--GND	
(I)	ADF #1	(L)	-103 (24)----------S-T-S----	FIGURE 8-2
(I)	A-429 RCVR #1	(H)	-104 (24)----------S-T-S----	FIGURE 8-2
			GND--┘ └--GND	
	SPARE CARD RESERVED		-105	
(I)	SIGNAL GROUND		C190J1C-106 (24)----------	SIGNAL GND

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 2 (cont)
IC-800

IO BP	Function	Connector Pin		Connects To
(I)	RESERVED (LX ON) (OPEN/GND)	C190J1D-1		
(I)	IAC 3 OVERHEAT (GND/OPEN)	-2	(24)----------	190J1D-2, E190J1D-2, E190J1B-67
	POWER SUPPLY RESERVED	-3		
(I)	FMS DATA LDR CONNECTED (GND/OPEN)	-4	(24)----------	123J1-D
	POWER SUPPLY RESERVED	-5		
(P)	+28V IAC POWER	-6	(20)----------	FIGURE 8-6
(P)	+28V IAC POWER	-7	(20)----------	
(P)	+28V IAC POWER	-8	(20)----------	
	FGC RESERVED	-9		
(P)	IAC POWER RETURN	-10	(20)----------	DC POWER GND
(P)	IAC POWER RETURN	-11	(20)----------	
(P)	IAC POWER RETURN	-12	(20)----------	
	FGC RESERVED	-13		
(O)	GC PANEL ANN VALID (28V/OPEN)	-14	(24)----------	11J2-57
(I)	SPARE FGC DISC IN (GND/OPEN)	-15		
(I)	YD ACTUATOR EXTENDED	-16	(24)-T----------	14J1-C, 190J1D-16
(I)	YD ACTUATOR RETRACTED	-17	(24)-T----------	14J1-D, 190J1D-17
	FGC RESERVED	-18		
	FGC RESERVED	-19		
(I)	PITCH WHEEL #2 (L)	-20		
(I)	PITCH WHEEL #2 (H)	-21		
(O)	NON-SWITCHED LVDT/RVDT EXCITATION (H)	-22		
(O)	NON-SWITCHED LVDT/RVDT EXCITATION (L)	-23		
(I)	TRIM POSITION (H)	-24		
(I)	TRIM POSITION (L)	C190J1D-25		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 2 (cont)
IC-800

IO BP	Function	Connector Pin		Connects To
	FGC RESERVED	C190J1D-26		
(O)	DAU2 REV (GND/OPEN)	-27	(24)----------	FIGURE 8-2
(O)	CAUTION ANNUN (GND/OPEN)	-28		
(I)	SG 2 REV (GND/OPEN)	-29	(24)----------	C135J1-39
(I)	SPARE DIO DISC IN (GND/OPEN)	-30		
(I)	PFD 2 OFF (GND/OPEN)	-31	(24)----------	C135J1-10
(I)	SPARE DIO DISC IN (GND/OPEN)	-32		
(I)	FWC AP DISCONNECT (GND/OPEN)	-33	(24)----------	FIGURE 8-11
(O)	RESERVED (FWC DOWNLOAD IN PROGRESS) (28V/OPEN)	-34		
(I)	SPARE DIO DISC IN (GND/OPEN)	-35		
(O)	RESERVED (FWC ERASE IN PROGRESS) (28V/OPEN)	-36		
(I)	TRUE REF SELECT (GND/OPEN)	-37		
(I)	SPARE FGC RVDT (L)	-38		
(I)	ANALOG IN (H)	-39		
	FGC RESERVED	-40		
(I)	PILOT EVENT MKR (GND/OPEN)	-41	(24)----------	FIGURE 8-16
(I)	SPARE DIO DISC IN (GND/OPEN)	-42		
(I)	IAC 1 OVERHEAT (GND/OPEN)	-43	(24)----------	190J1B-67, 190J1D-43, E190J1D-43
(O)	CHECK PFD ANNUN (GND/OPEN)	-44	(24)----------	FIGURE 8-15
(I)	SG 1 REV (GND/OPEN)	-45	(24)----------	135J1-39
(I)	CHASSIS GROUND	C190J1D-46		

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 2 (cont)
IC-800

IO BP	Function	Connector Pin	Connects To
(O)	SPARE DIO DISC OUT (28V/OPEN)	C190J1D-47	
(I)	IAC 2 OVERHEAT (GND/OPEN)	-48 (24)----------	C190J1B-67, 190J1D-48, E190J1D-48
(O)	SPARE DIO DISC OUT (28V/OPEN)	-49	
(O)	GC PANEL STROBE OUT (L)	-50 (24)----------S-T-S----	11J2-6
(O)	GC PANEL STROBE OUT (H)	-51 (24)----------S-T-S----	11J2-5
		GND┘ └GND	
	FGC RESERVED	-52	
(I)	SG 3 REV (GND/OPEN)	-53 (24)----------	E135J1-42
(I)	YD LVDT FEEDBACK (L)	-54 (24)----------S-T-S----	14J1-M,
		| | |	190J1D-54
(I)	YD LVDT FEEDBACK (H)	-55 (24)----------S-T-S----	14J1-N,
		GND┘ └GND	190J1D-55
(I)	SPARE FGC RVDT (L)	-56	
(I)	ANALOG IN (H)	-57	
(I)	AILERON TACH (L)	-58 (24)----------S-T-S----	12J1-N,
		| | |	190J1D-58
(I)	AILERON TACH (H)	-59 (24)----------S-T-S----	12J1-L,
		GND┘ └GND	190J1D-59
(I)	ELEVATOR TACH (L)	-60 (24)----------S-T-S----	13J1-N,
		| | |	190J1D-60
(I)	ELEVATOR TACH (H)	-61 (24)----------S-T-S----	13J1-L,
		GND┘ └GND	190J1D-61
(I)	GC PANEL (L)	-62 (24)----------S-T-S----	11J2-8
(I)	BUTTON DATA (H)	-63 (24)----------S-T-S----	11J2-7
		GND┘ └GND	
(I)	AWP ENABLE (28V/OPEN)	-64	
(I)	SPARE FGC DISC IN (28V/OPEN)	-65	
(I)	BC ID 1 (GND/OPEN)	C190J1D-66	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 2 (cont)
IC-800

IO BP	Function	Connector Pin		Connects To
(O)	SPARE FMS DISC OUT (GND/OPEN)	C190J1D-67		
(O)	FMS VTA HORN (GND/OPEN)	-68	(24)----------	FIGURE 8-15
(O)	SWITCHED LVDT/RVDT EXCITATION	(L) -69 (H) -70	(24)----------S-T-S---- (24)----------S-T-S----	14J1-V, 190J1D-69 14J1-U, 190J1D-70
(I)	RESERVED [HDLC RX #1 (H)]	-71	GND└┘ └GND	
(I)	RESERVED [HDLC RX #1 (L)]	-72		
	FGC RESERVED	-73		
	FGC RESERVED	-74		
(O)	CROSS SERVOS OFF (28V/OPEN)	-75	(24)----------	190J1A-90
(O)	CROSS SERVOS PWR OFF (28V/OPEN)	-76	(24)----------	190J1A-91
(I)	AIL RVDT SURFACE POS (L)	-77		
(I)	AIL RVDT SURFACE POS (H)	-78		
(I)	BC ID 3 (GND/OPEN)	-79		
(B)	IOP RS-232 COMMON	-80	(24)----------S-T-S----	FIGURE 8-3
(B)	IOP RS-232 DATA XMTR	-81	(24)----------S-T-S----	
(B)	IOP RS-232 DATA RCVR	-82	(24)----------S-T-S----	
			GND└┘ └GND	
(I)	RESERVED [HDLC RX #2 (H)]	-83		
(I)	RESERVED [HDLC RX #2 (L)]	-84		
(O)	RESERVED (SBY ENG ENABLE) (GND/OPEN)	-85		
(I)	SPARE DIO DISC IN (GND/OPEN)	-86		
(I)	SPARE DIO DISC IN (GND/OPEN)	-87		
(I)	RESERVED (FWC MEM ERASE) (GND/OPEN)	-88		
(I)	+28V AP CLUTCH IN (28V/OPEN)	C190J1D-89	(20)----------S---S---- GND└┘ └GND	12J1-G, 13J1-G, 190J1C-12, C190J1C-12, 190J1D-89, E190J1D-89

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

INTEGRATED AVIONICS COMPUTER (IAC) NO. 2 (cont)
IC-800

IO BP	Function	Connector Pin	Connects To
(I)	RESERVED (FWC DOWNLOAD INIT) (GND/OPEN)	C190J1D-90	
(I)	+28V YD BRAKE IN (28V/OPEN)	-91 (22)----------S---S---- GND┘ └GND	14J1-E, 190J1C-10, C190J1C-10, 190J1D-91, E190J1D-91
(I)	SPARE DIO DISC IN (GND/OPEN)	-92	
(I)	COPILOT STICKSHAKER (28V/OPEN)	-93 (24)----------	FIGURE 8-12
(O)	GC PANEL POWER RETURN	-94 (22)----------S-T-S----	11J2-18
(O)	5V GC PANEL POWER	-95 (22)----------S-T-S---- GND┘ └GND	11J2-17
(O)	GC PANEL CLOCK (L)	-96 (24)----------S-T-S----	11J2-4
(O)	GC PANEL CLOCK (H)	-97 (24)----------S-T-S---- GND┘ └GND	11J2-3
(O)	GC PANEL ANNUN DATA (L)	-98 (24)----------S-T-S----	11J2-2
(O)	GC PANEL ANNUN DATA (H)	-99 (24)----------S-T-S---- GND┘ └GND	11J2-1
(O)	TRIM ARM UP OUT (28V/OPEN)	-100 (22)----------	FIGURE 8-9
(I)	FMS RESET (GND/OPEN)	-101	
(I)	SPARE DIO DISC IN (GND/OPEN)	-102	
(I)	WEIGHT ON WHEELS (GND/OPEN)	-103 (24)----------	FIGURE 8-5
(B)	ASCB NO. 2 PRI (H)	-104 ----------S-T-S----┐	FIGURE 8-1
(B)	ASCB NO. 2 PRI (L)	-106 ----------S-T-S----┘ GND┘ └GND	
(O)	TRIM ARM DN OUT (28V/OPEN)	-105 (22)----------	FIGURE 8-9
		C190J1D-106 SEE C190J1D-104	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

IAC INSTALLATION MODULE NO. 2
IM-803

IO BP	Function	Connector Pin		Connects To
(P)	+5 VDC POWER	C199J1-1	(24)----------S-T-S----	C190J1B-94
(P)	+5 VDC POWER RETURN	-2	(24)----------S-T-S----	C190J1B-95
(O)	DATA XMTR	C199J1-3	(24)----------S-T-S----	C190J1B-96
			NC┘ └GND	

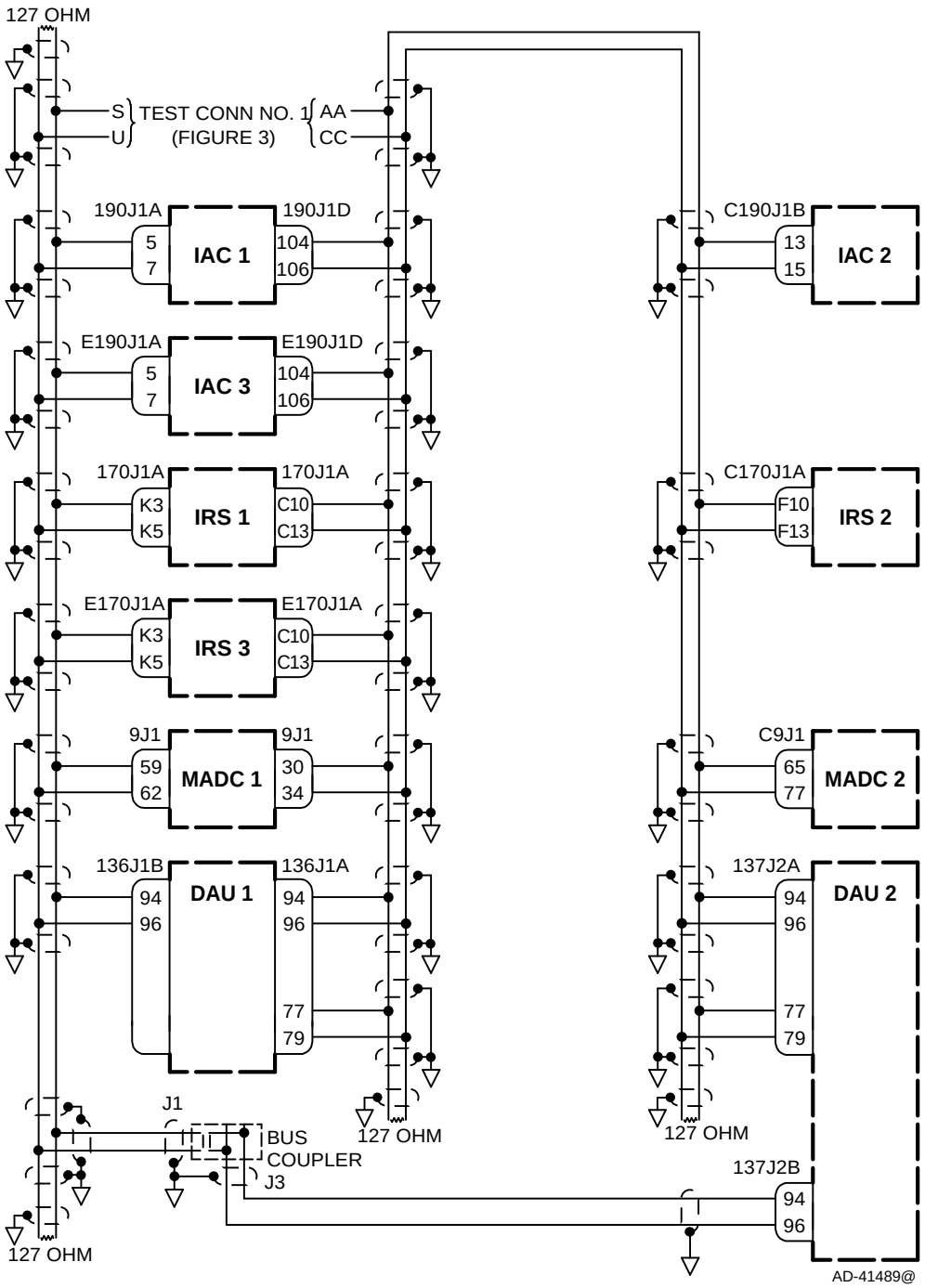
Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

8.0 SUPPLEMENTARY WIRING INFORMATION (FIGURES)

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

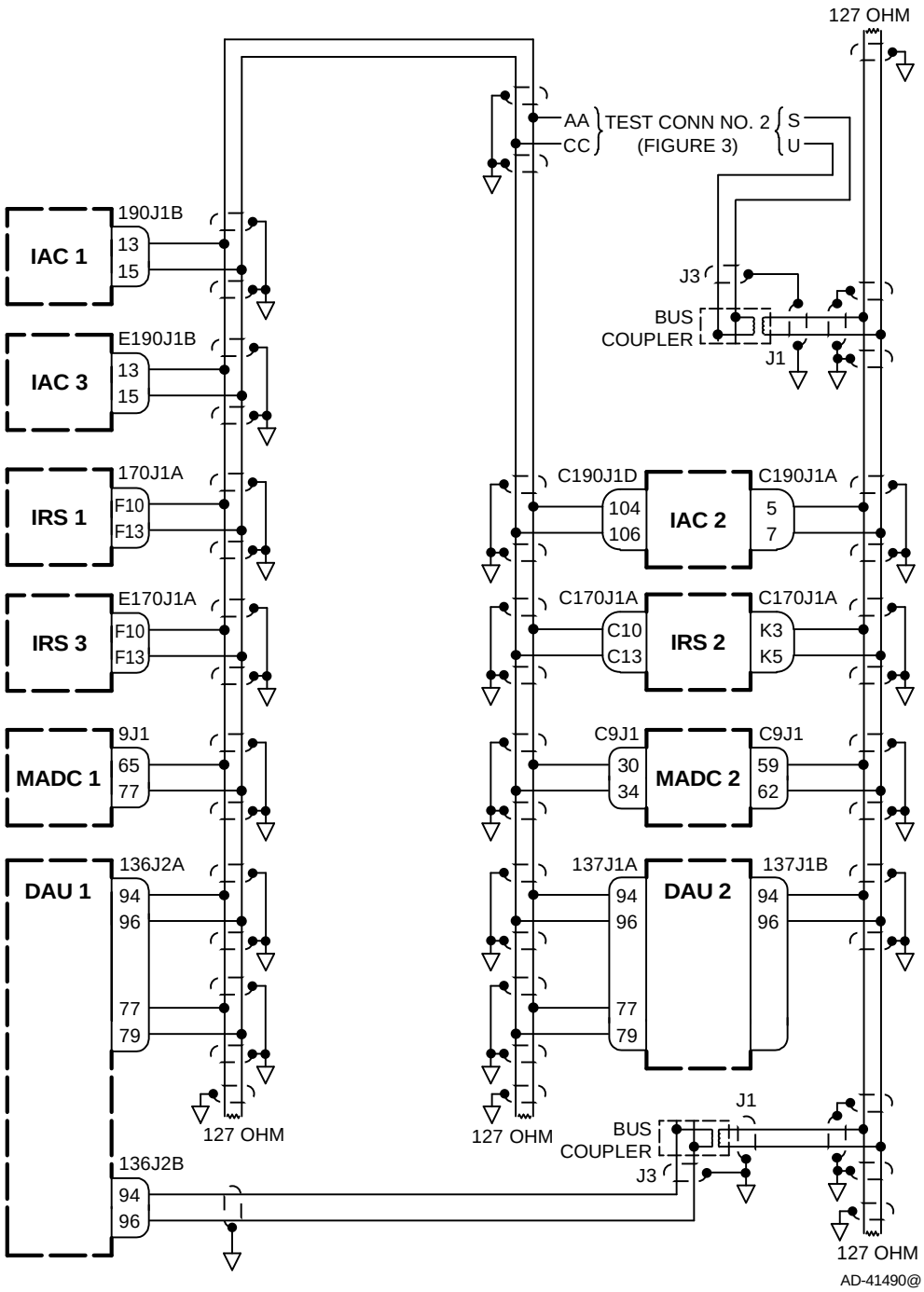


NOTE: Shielding connections assume the stub is constructed as shown in Figure 5-2. If this method of stub construction is not feasible, the stub shield must be connected to ASCB bus shield at one end and connected to aircraft ground at the other end as shown in Figure 5-1.

ASCB Connections
Bus 1 Primary and Bus 1 Backup
Figure 8-1a

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

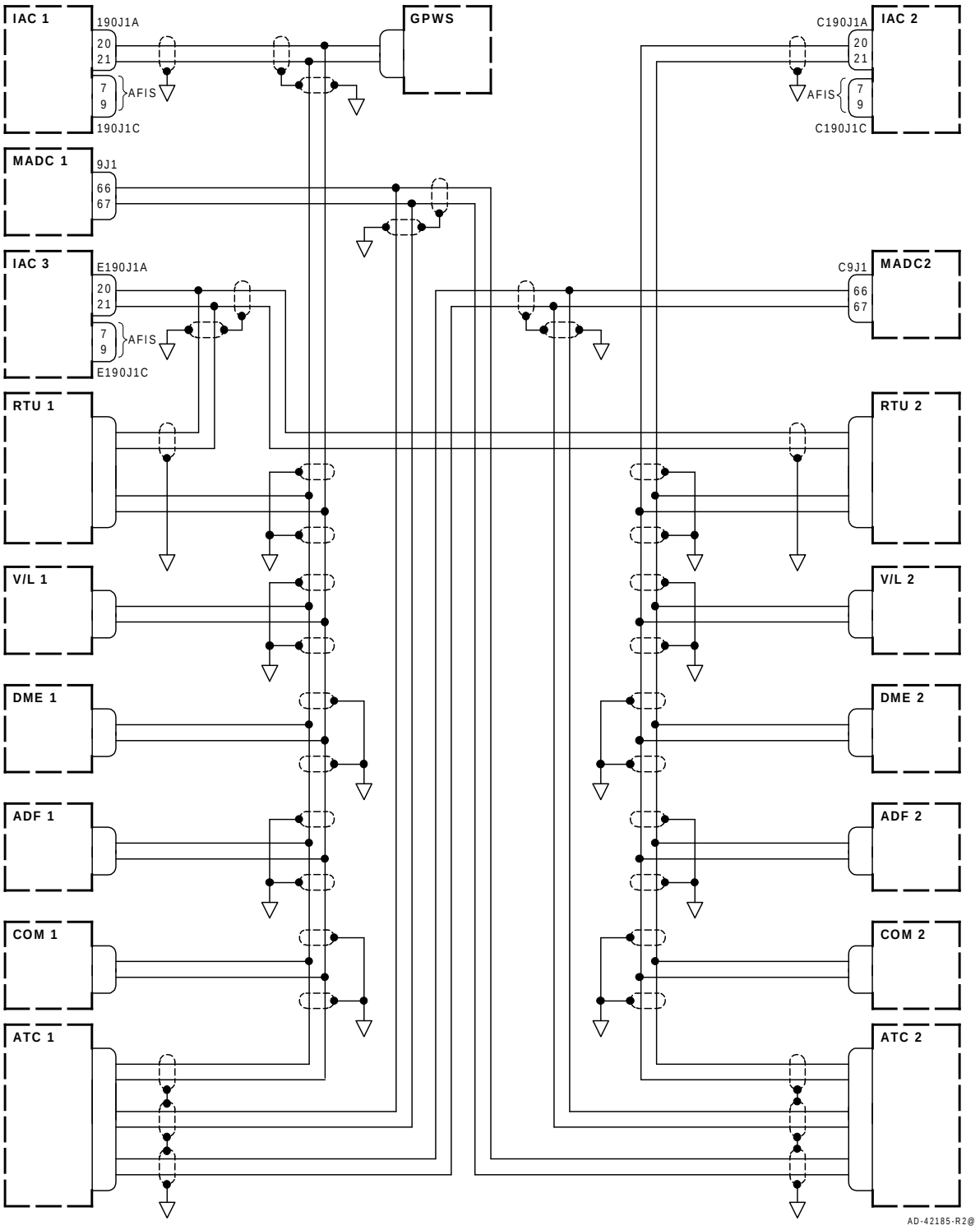


NOTE: Shielding connections assume the stub is constructed as shown in Figure 5-2. If this method of stub construction is not feasible, the stub shield must be connected to ASCB bus shield at one end and connected to aircraft ground at the other end as shown in Figure 5-1.

ASCB Connections
Bus 2 Primary and Bus 2 Backup
Figure 8-1b

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

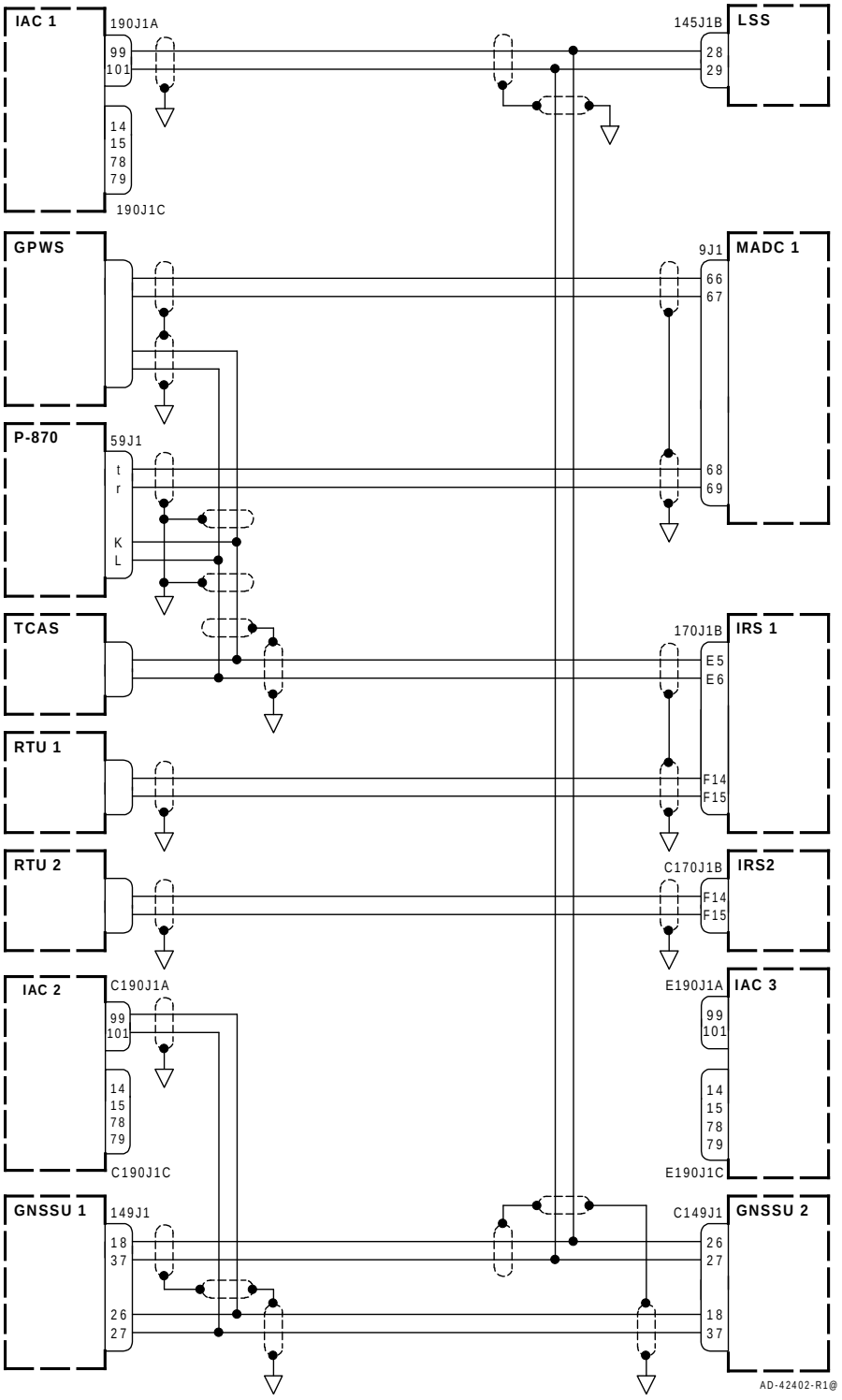
Table 3-1. Interconnect Information (cont)



ARINC 429 Interfaces
Figure 8-2a

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

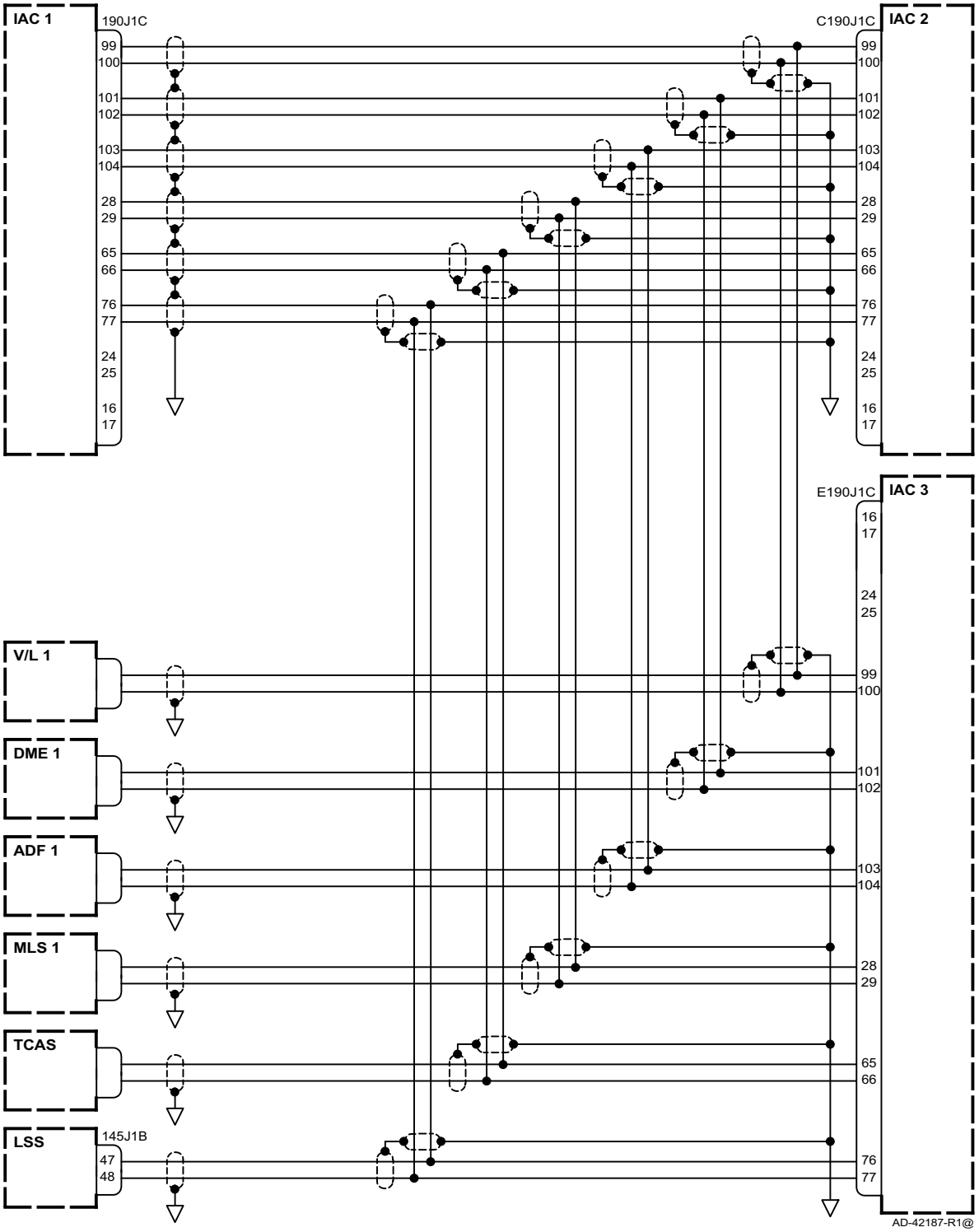
Table 3-1. Interconnect Information (cont)



ARINC 429 Interfaces
Figure 8-2b

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

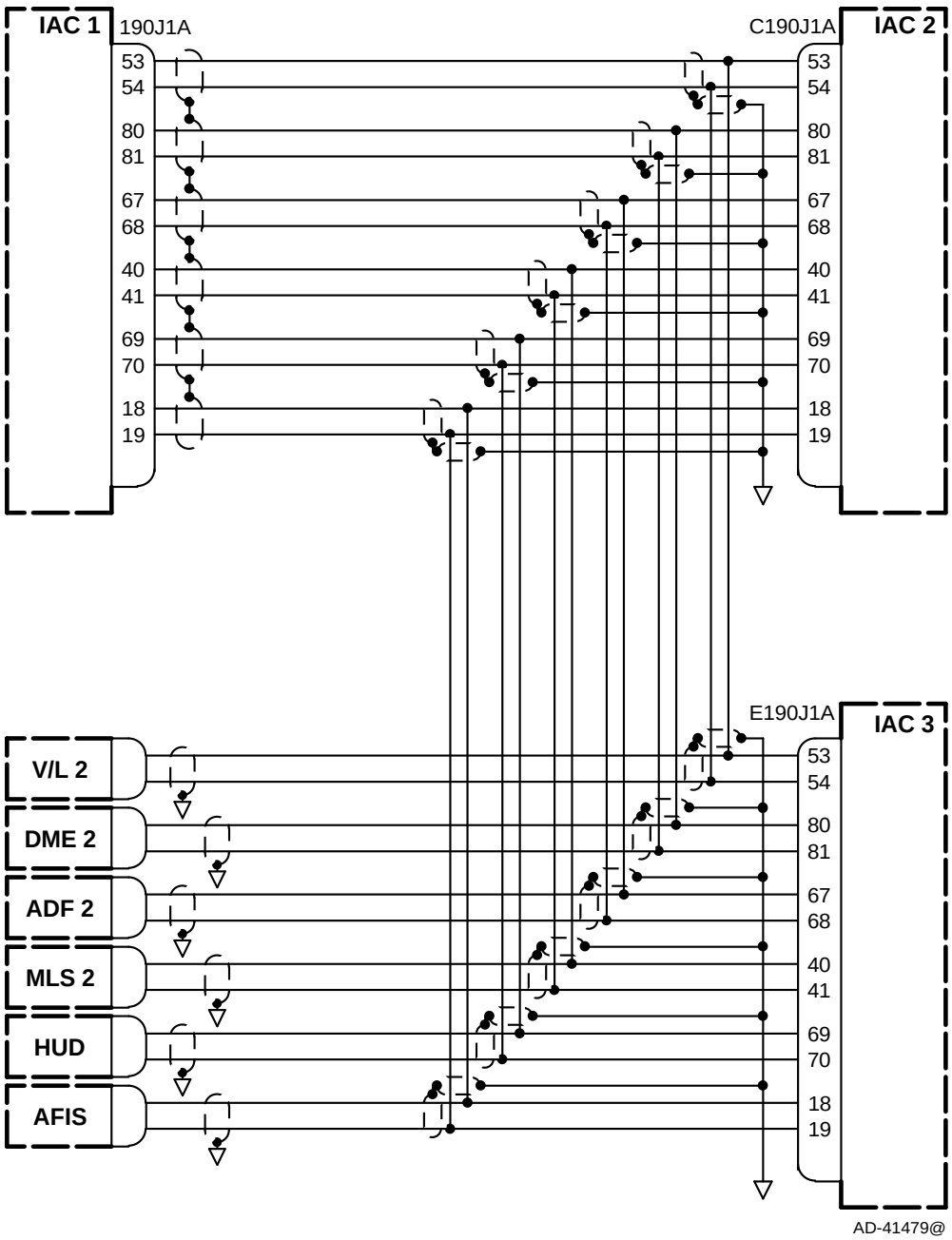
Table 3-1. Interconnect Information (cont)



ARINC 429 Interfaces
Figure 8-2c

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

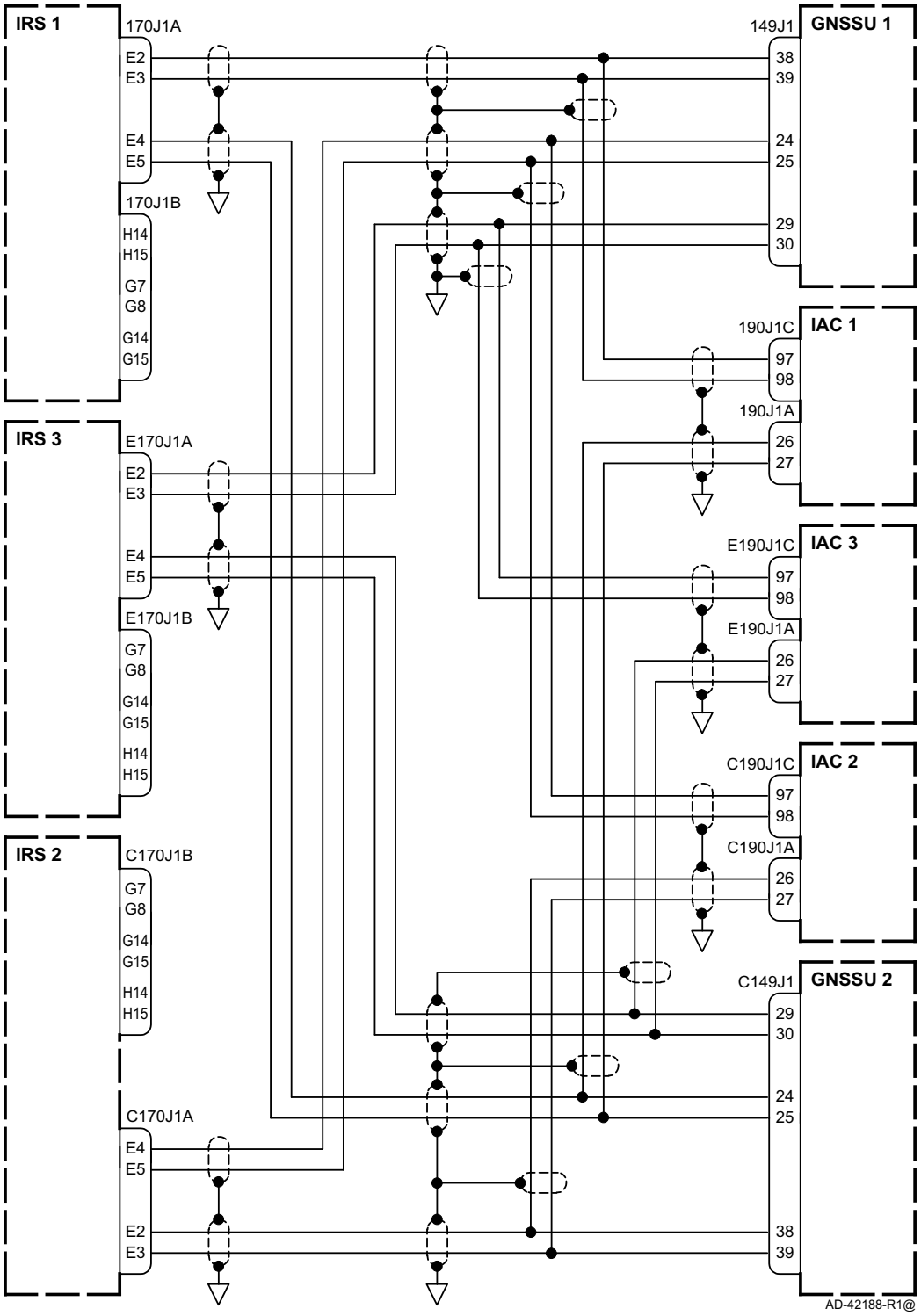
Table 3-1. Interconnect Information (cont)



ARINC 429 Interfaces
Figure 8-2d

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

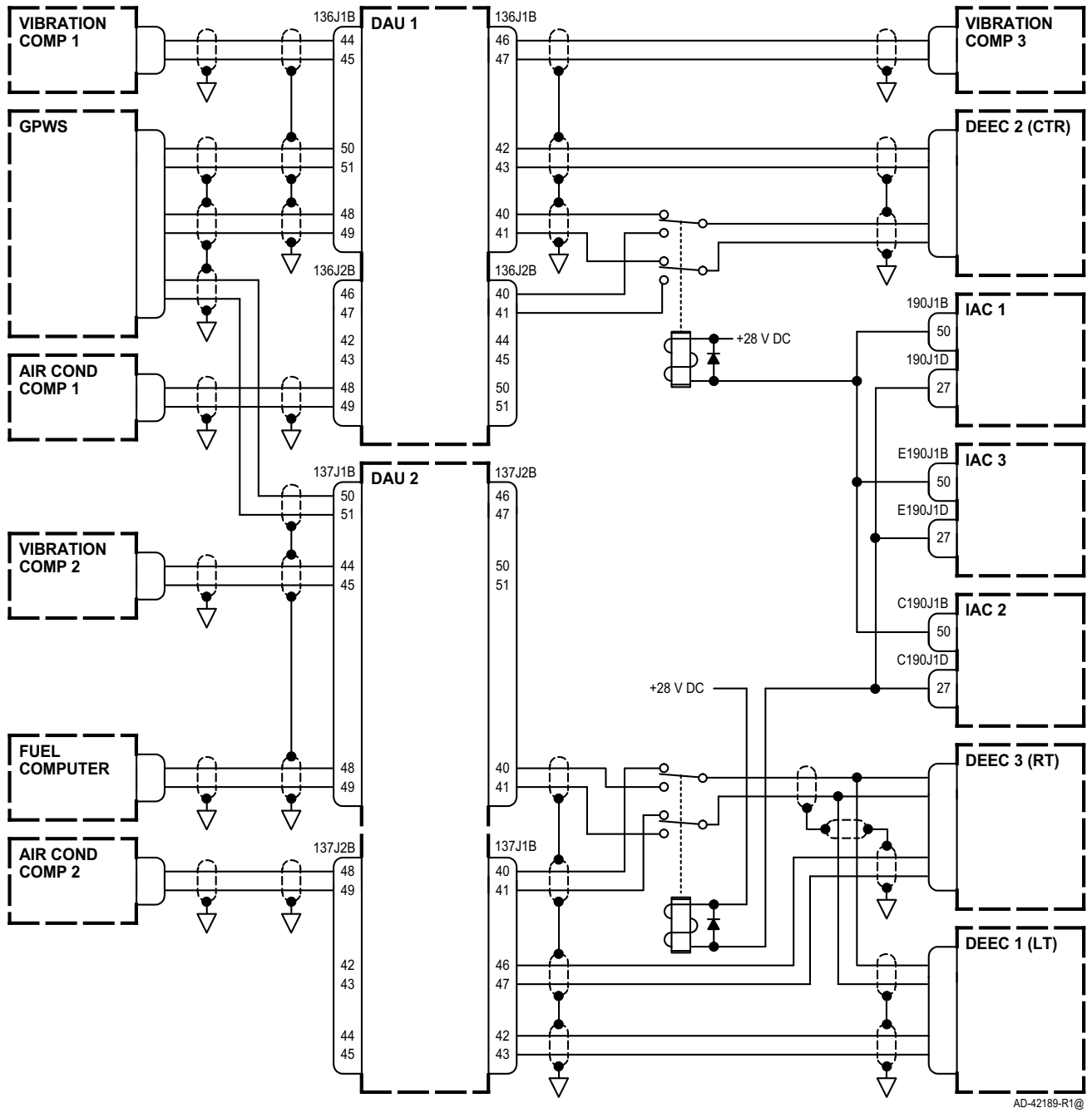
Table 3-1. Interconnect Information (cont)



ARINC 429 Interfaces
Figure 8-2e

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

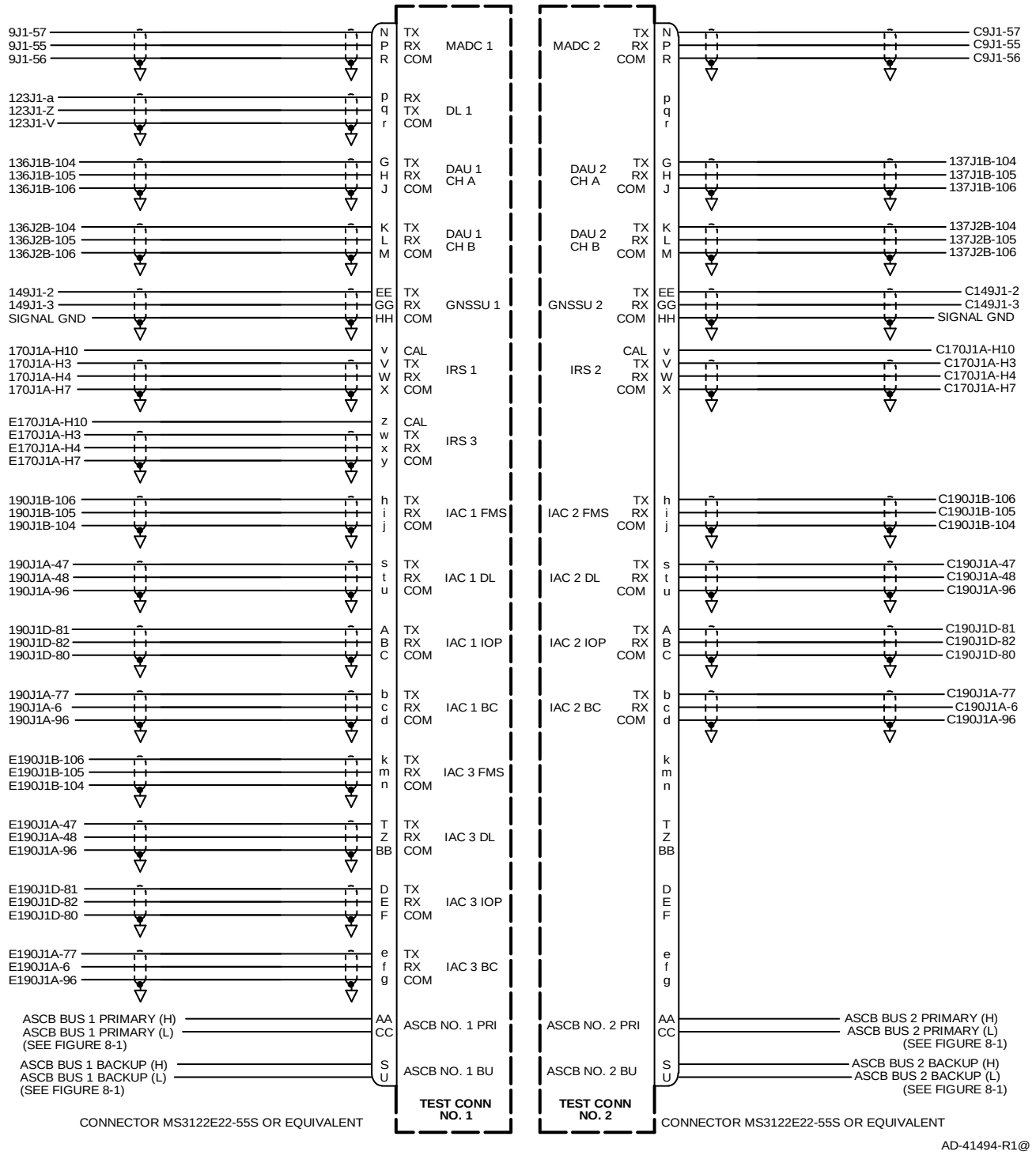
Table 3-1. Interconnect Information (cont)



ARINC 429 Interfaces
Figure 8-2f

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

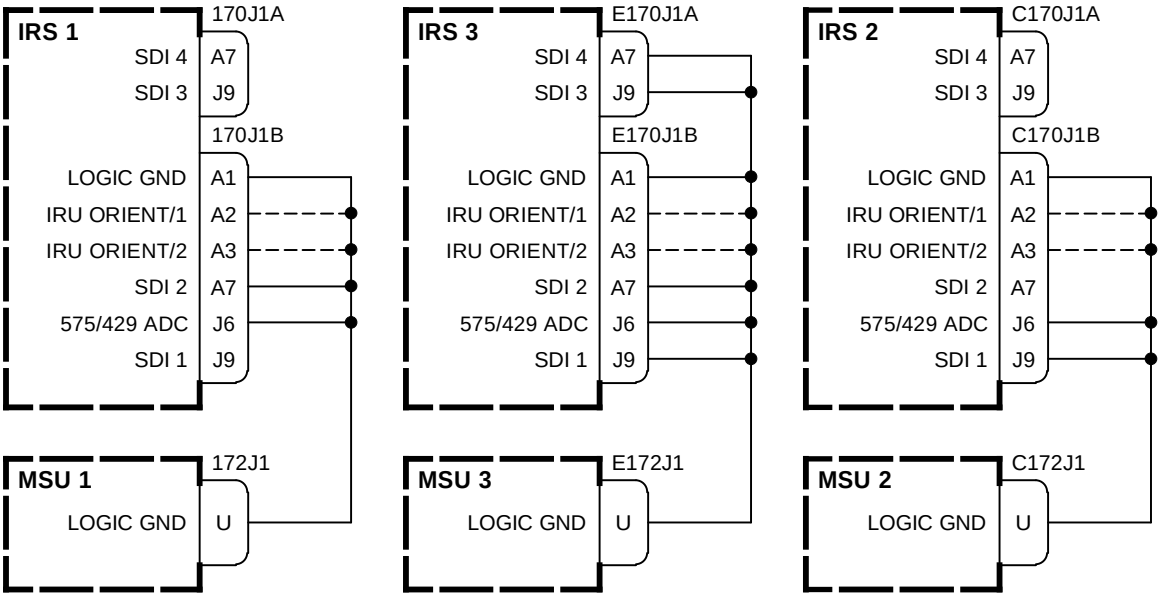
Table 3-1. Interconnect Information (cont)



RS-232 Test Connector Diagram
Figure 8-3

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)



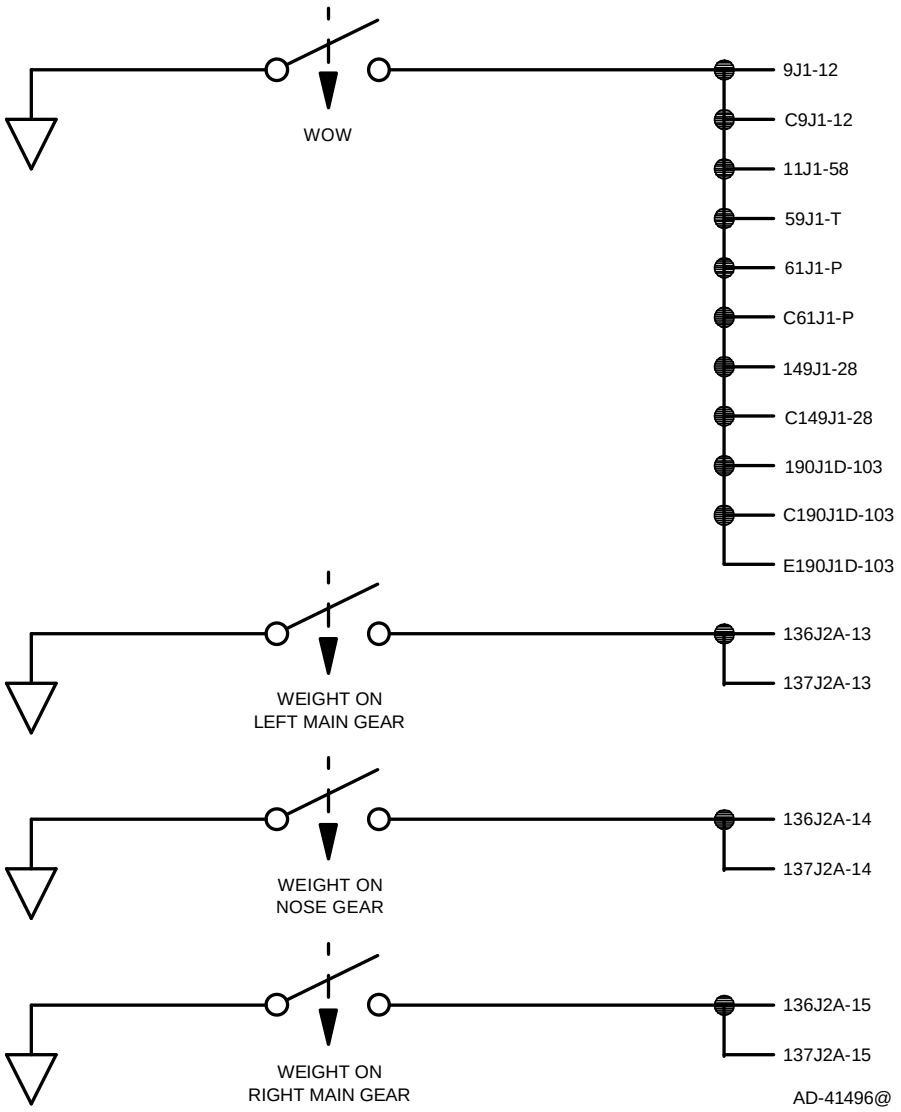
PROGRAM PIN	DIRECTION HANDLES POINT			
	AFT	FWD	LEFT	RIGHT
J1B-A2	OPEN	JUMPER TO J1B-A1	OPEN	JUMPER TO J1B-A1
J1B-A3	OPEN	OPEN	JUMPER TO J1B-A1	JUMPER TO J1B-A1

AD-41482@

IRS Strapping
Figure 8-4

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

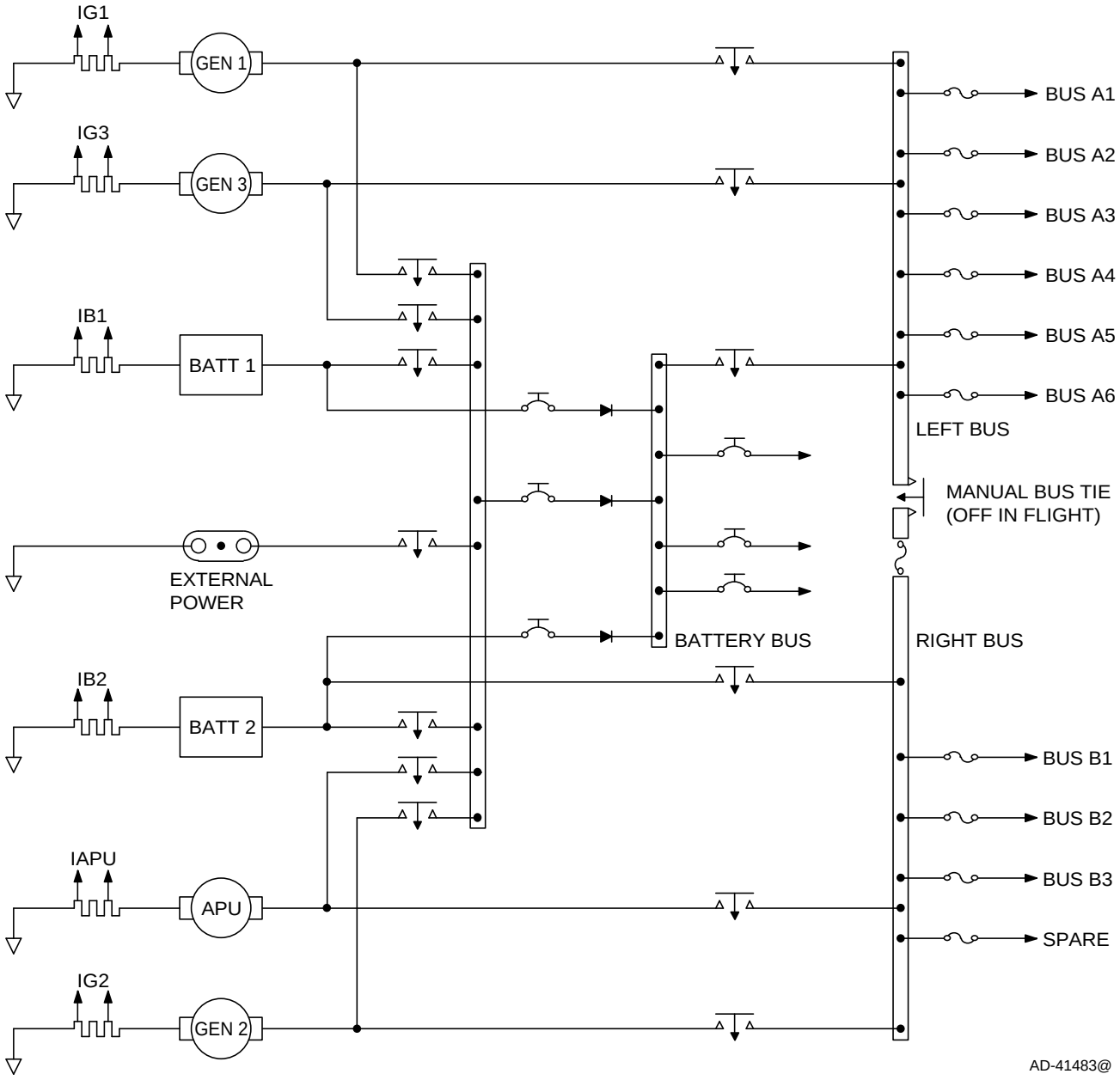
Table 3-1. Interconnect Information (cont)



Weight on Wheels Switch Diagram
Figure 8-5

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

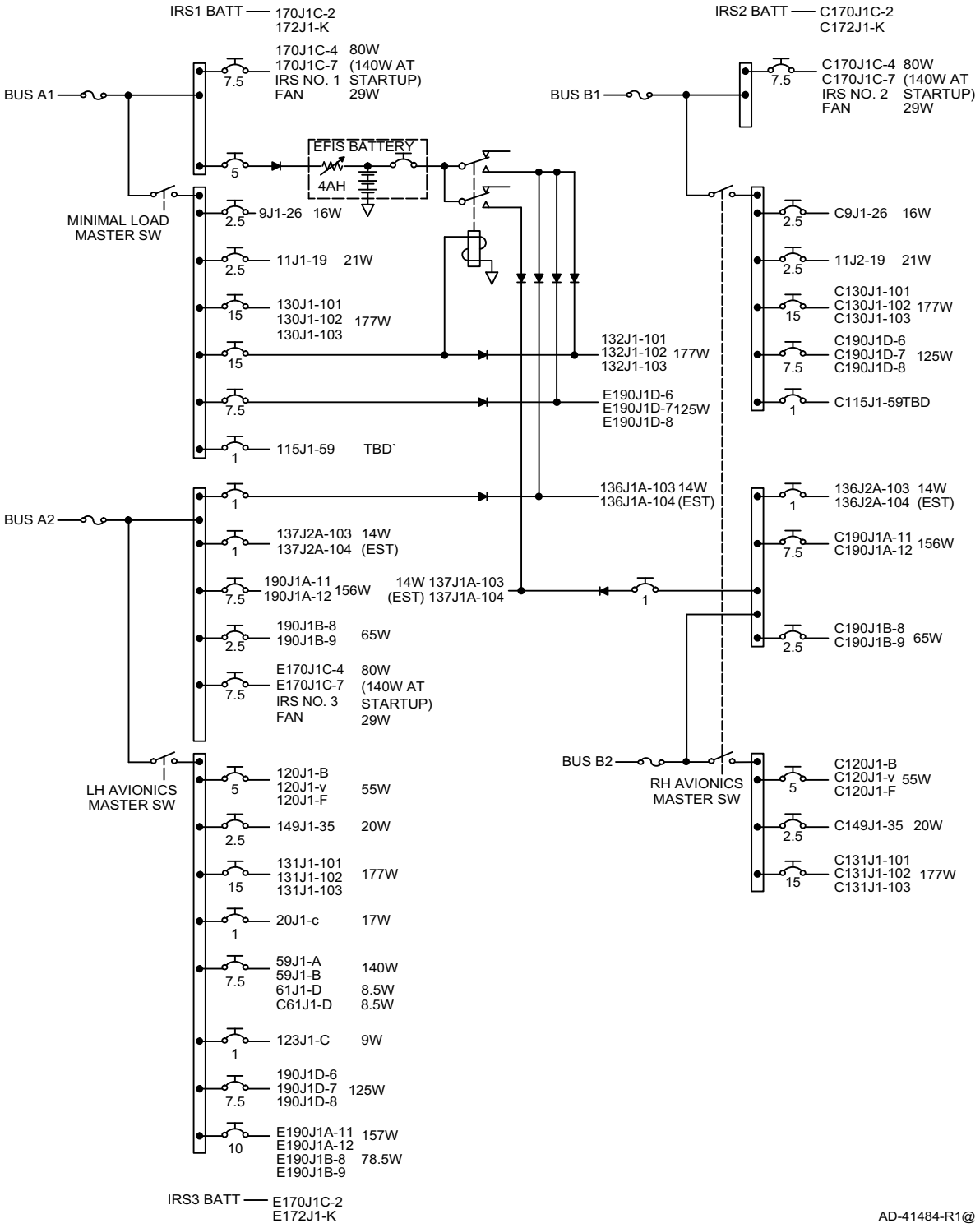
Table 3-1. Interconnect Information (cont)



Power Distribution
Figure 8-6a

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

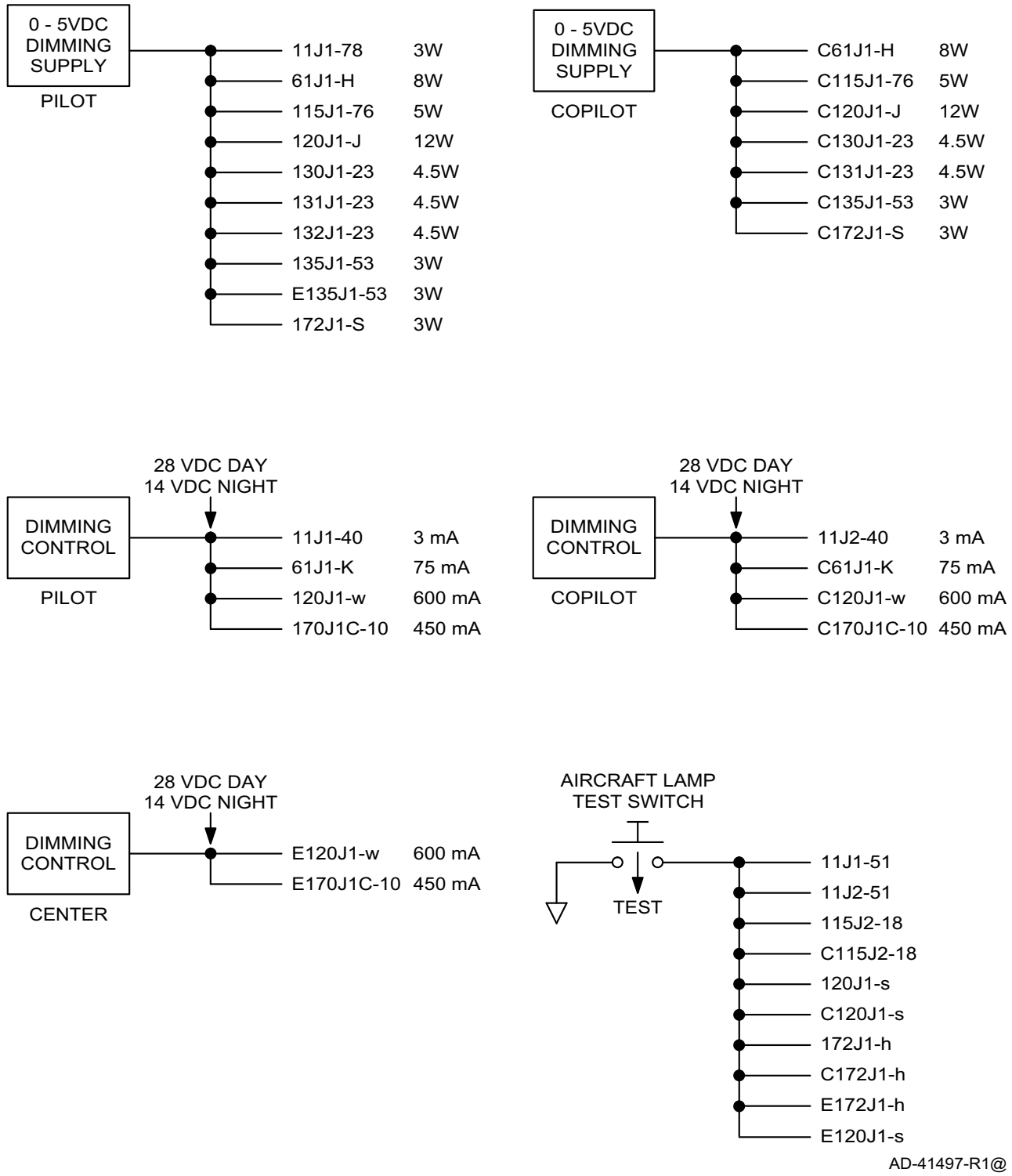
Table 3-1. Interconnect Information (cont)



Power Distribution
Figure 8-6b

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

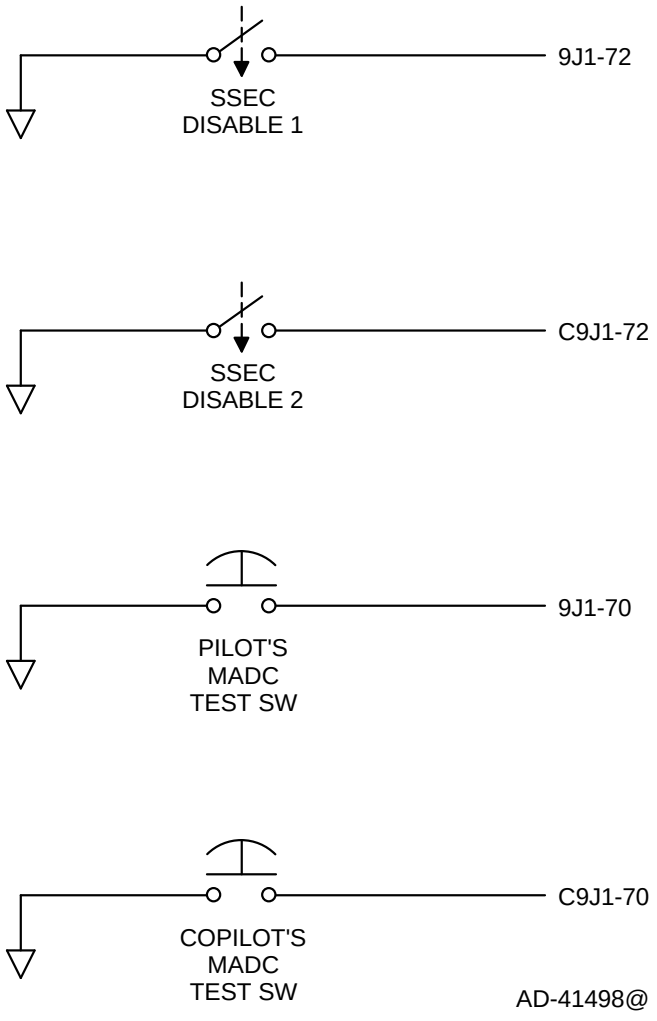
Table 3-1. Interconnect Information (cont)



Lighting Power/Dimming/Lamp Test
Figure 8-7

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

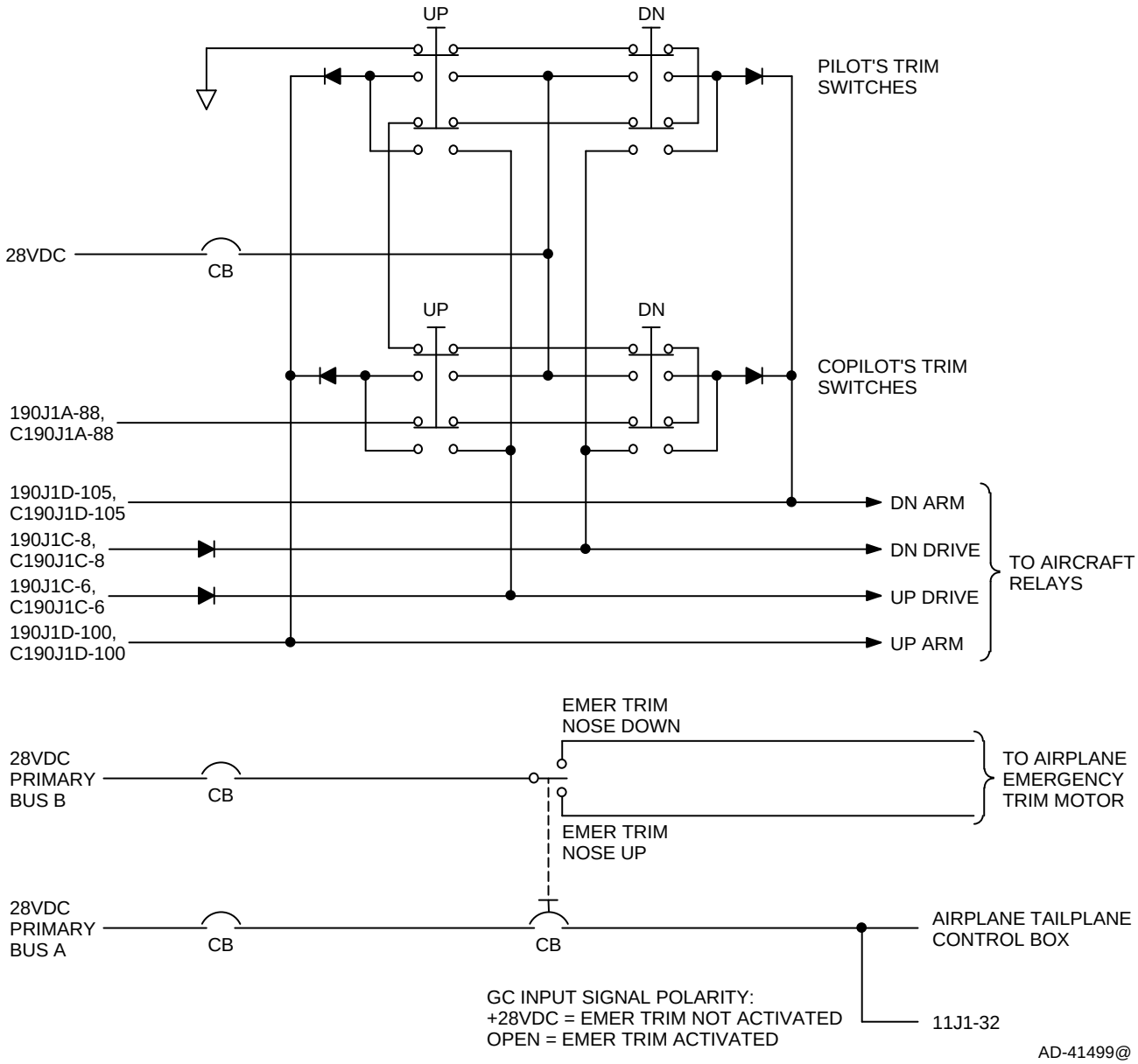
Table 3-1. Interconnect Information (cont)



SSEC Disable and MADC Test Switch Diagram
Figure 8-8

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)



Pitch Trim Interface Diagram
Figure 8-9

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

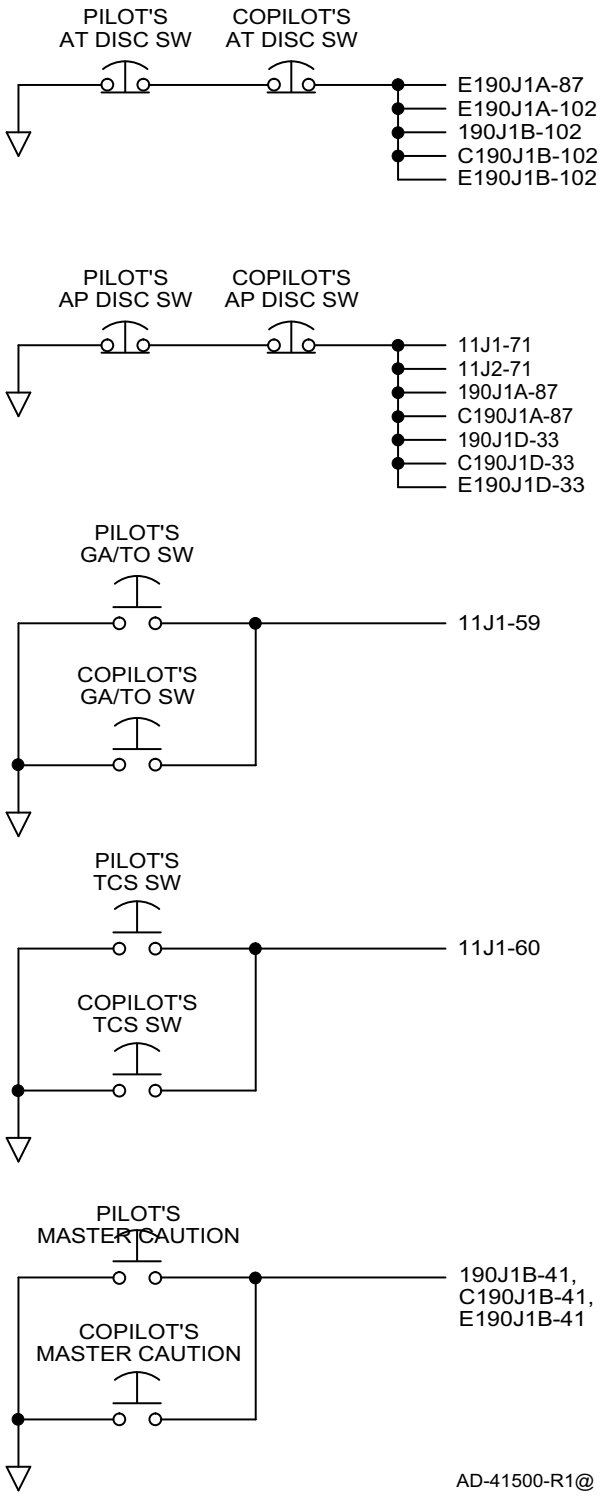
Table 3-1. Interconnect Information (cont)

(Deleted)

Figure 8-10

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

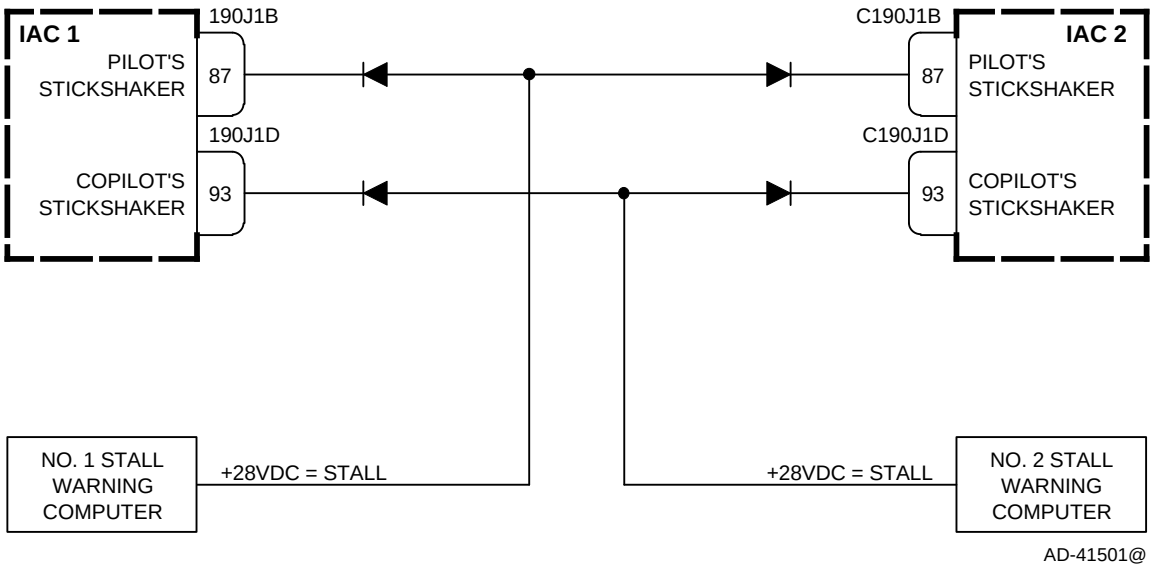
Table 3-1. Interconnect Information (cont)



Miscellaneous Switches
Figure 8-11

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

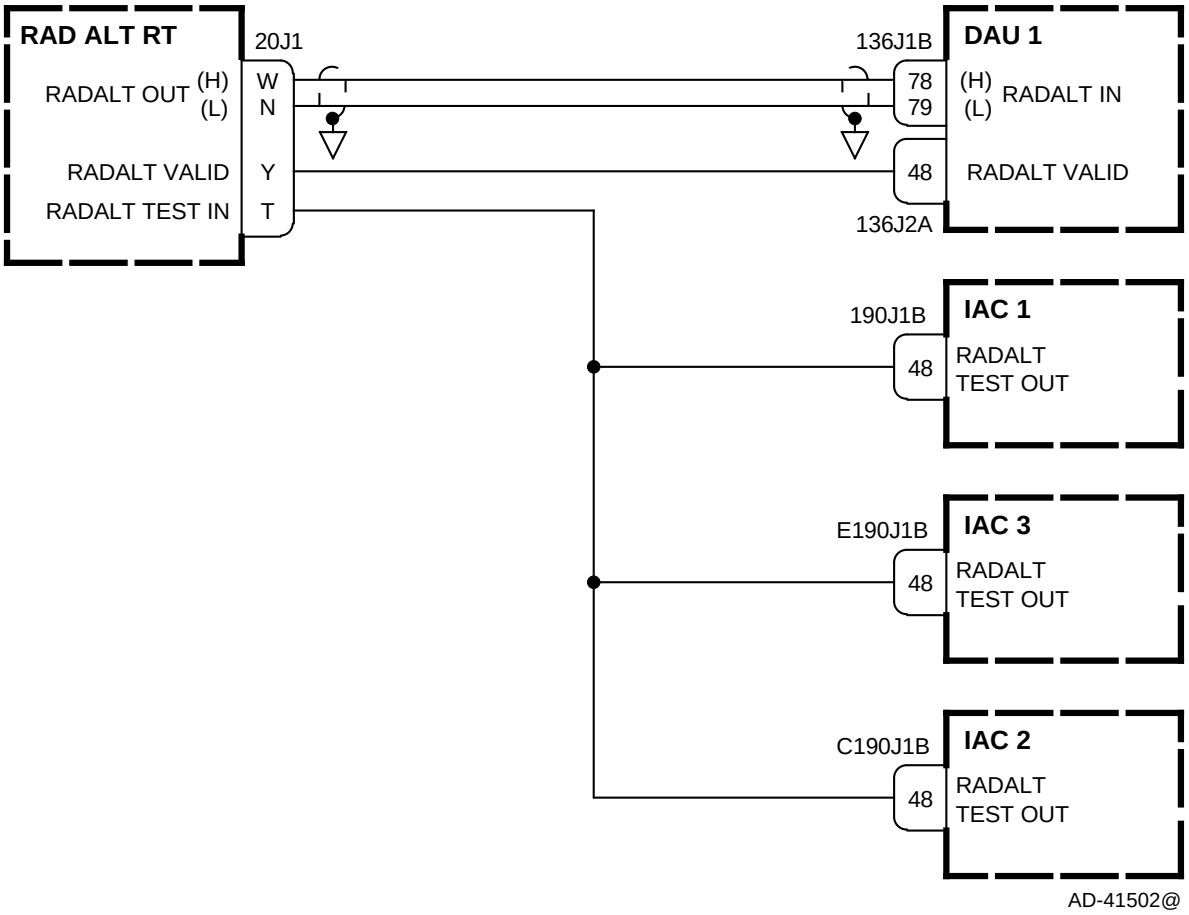
Table 3-1. Interconnect Information (cont)



Stick Shakers
Figure 8-12

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

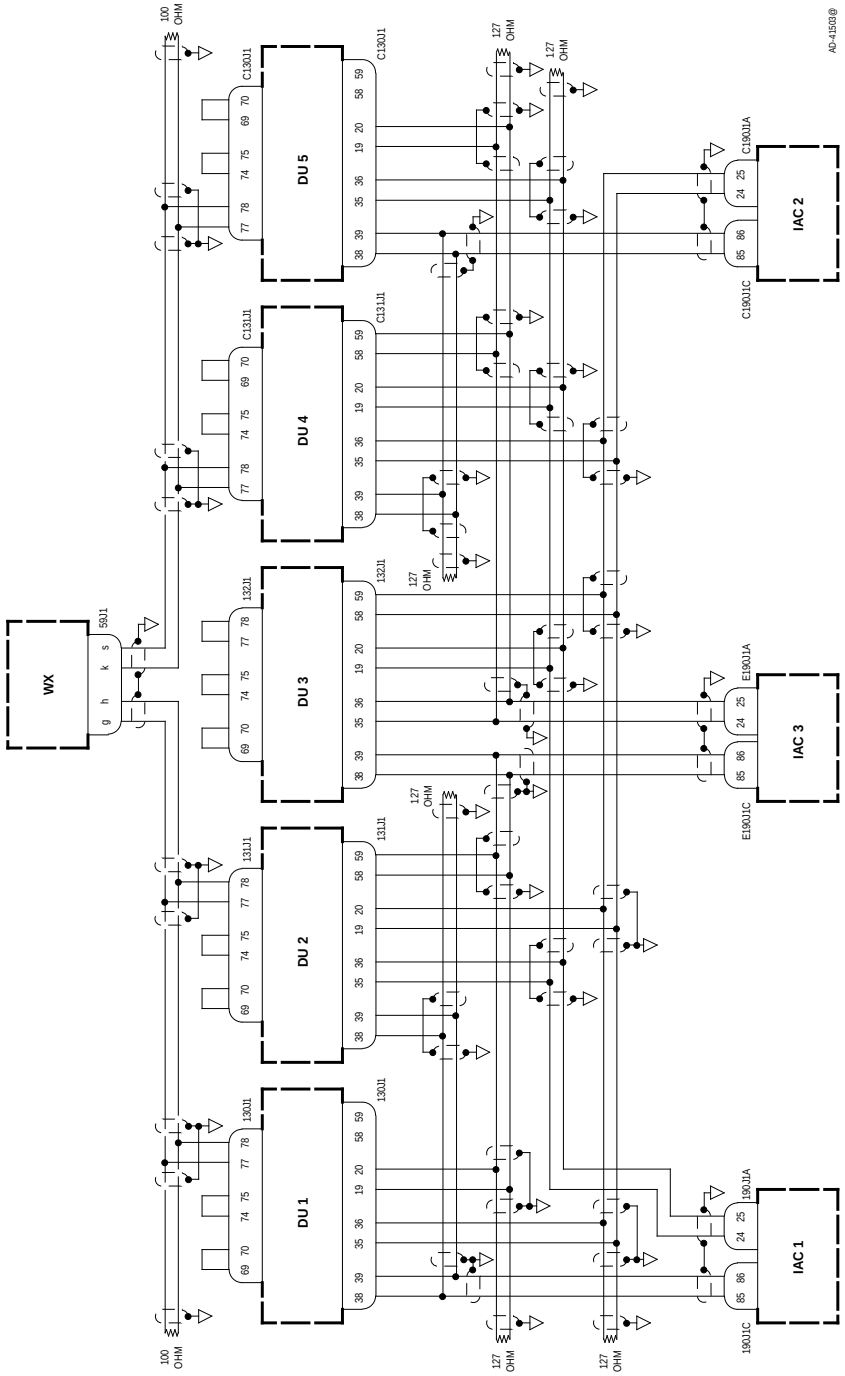
Table 3-1. Interconnect Information (cont)



Single Radio Altimeter
Figure 8-13

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

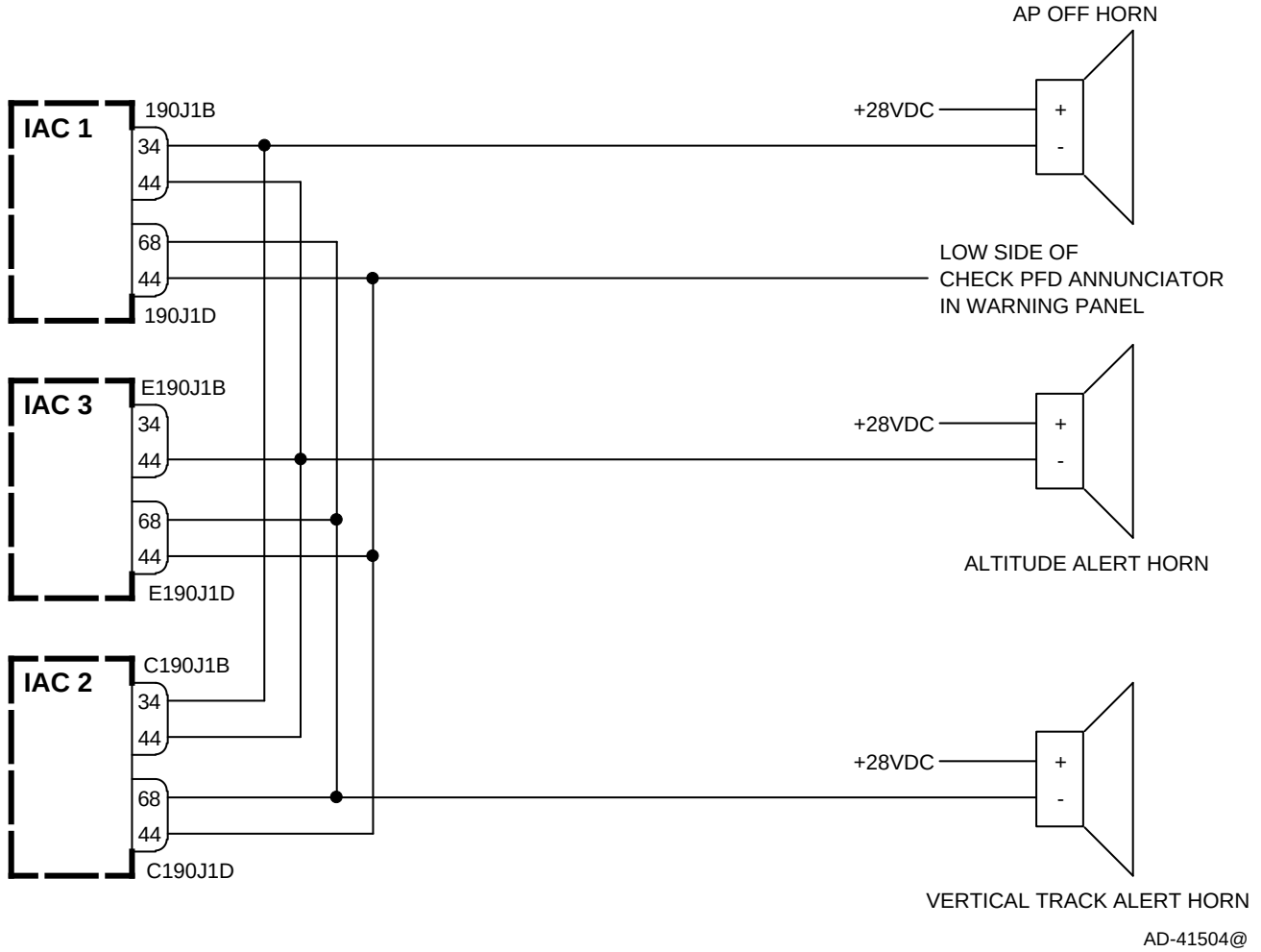


NOTE: Shielding connections assume the stub is constructed as shown in Figure 5-2. If this method of stub construction is not feasible, the stub shield must be connected to bus shield at one end and connected to aircraft ground at the other end as shown in Figures 6-1, 6-3, 6-4, and 6-6.

IAC/DU/WX Interfaces
Figure 8-14

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

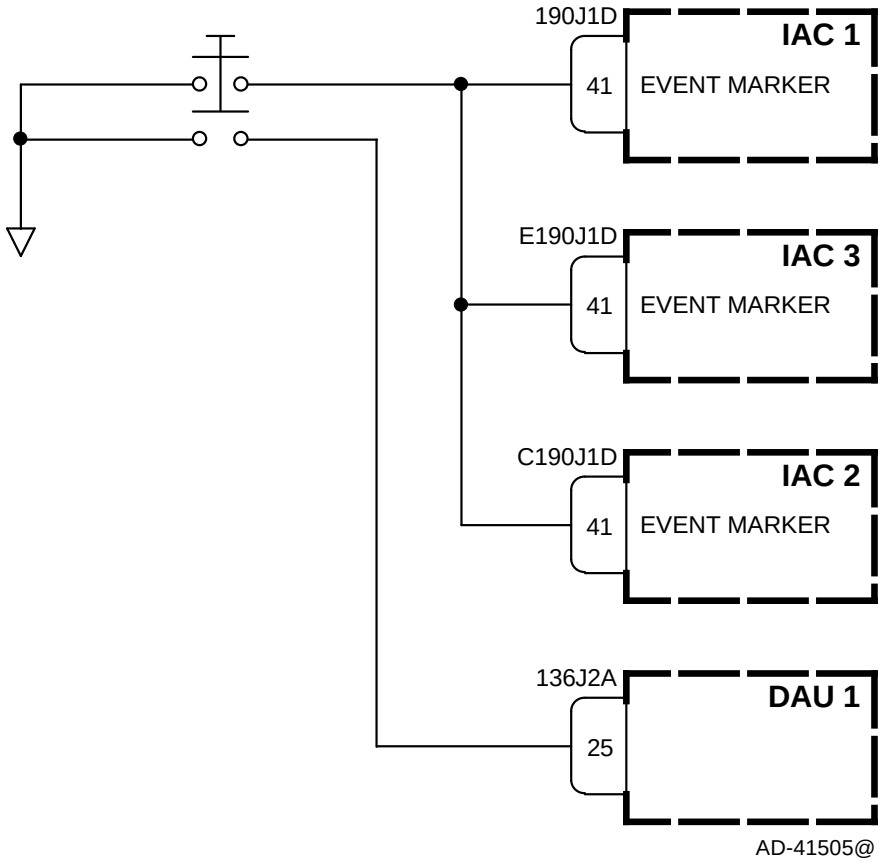
Table 3-1. Interconnect Information (cont)



Alt Alert, AP Off, VTA Horns and Check PFD Annunciators
Figure 8-15

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)



Pilot Event Marker
Figure 8-16

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

(Blank Page)

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

APPENDIX A
CONFIGURATION MODULE DISCRETES FOR THE FALCON 900EX

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

APPENDIX A
CONFIGURATION MODULE DISCRETES FOR THE FALCON 900EX

The configuration discretes shall be serialized into the IAC in twelve consecutive bytes. These discretes shall be read by the I/O CPU at power-up and inserted into the swap RAM for the internal functions.

The configuration module shall use jumpers on a circuit card that define the configuration of the aircraft. The following hardware implementation is in the configuration module:

- Jumper installed = Logic 0
- Jumper removed = Logic 1

CB = Configuration Byte

DISCRETE	BYTE/BIT	GENERIC DESCRIPTION	NOTES
1	CB1-0	# of AHRS/IRSs - 2	F900EX allows 2 or 3 IRSs
2	CB1-1	# of AHRS/IRSs - 1	
3	CB1-2	# of ADCs - 2	F900EX always has 2 MADCs
4	CB1-3	# of ADCs - 1	
5	CB1-4	# of EFIS/FWCs - 2	F900EX always has 3 EFIS/FWCs
6	CB1-5	# of EFIS/FWCs - 2	
7	CB1-6	LSS Installed	LSS is optional on F900EX
	CB1-7	0	
8	CB2-0	FGC Not Installed in this IAC	IACs 1 and 2 have autopilots, IAC 3 does not
9	CB2-1	FMS Not Installed in this IAC	All combinations allowed
10	CB2-2	# of FMSs - 2	All combinations allowed
11	CB2-3	# of FMSs - 1	
12	CB2-4	SPARE	
13	CB2-5	SPARE	
14	CB2-6	SPARE	
	CB2-7	1	
15	CB3-0	A429 LRN1 Config - 3	All combinations allowed
16	CB3-1	A429 LRN1 Config - 2	
17	CB3-2	A429 LRN1 Config - 1	
18	CB3-3	A429 LRN1 Number - 2	All combinations allowed
19	CB3-4	A429 LRN1 Number - 1	
20	CB3-5	# of Autopilots	F900EX always has 2 autopilots
21	CB3-6	AFIS Installed	AFIS is optional on F900EX
	CB3-7	1	
22	CB4-0	A429 LRN2 Config - 3	All combinations allowed

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISCRETE	BYTE/BIT	GENERIC DESCRIPTION	NOTES
23	CB4-1	A429 LRN2 Config - 2	
24	CB4-2	A429 LRN2 Config - 1	
25	CB4-3	A429 LRN2 Number - 2	All combinations allowed
26	CB4-4	A429 LRN2 Number - 1	
27	CB4-5	FMS Mode - 2	All combinations allowed
28	CB4-6	FMS Mode - 1	
	CB4-7	1	
29	CB5-0	A429 LRN3 Config - 3	All combinations allowed
30	CB5-1	A429 LRN3 Config - 2	
31	CB5-2	A429 LRN3 Config - 1	
32	CB5-3	A429 LRN3 Number - 2	All combinations allowed
33	CB5-4	A429 LRN3 Number - 1	
34	CB5-5	Sensor 1 Type	Sensor 1 is always an IRS on F900EX
35	CB5-6	Sensor 2 Type	Sensor 2 is always an IRS on F900EX
	CB5-7	1	
36	CB6-0	Sensor 3 Type	Sensor 3, if installed, is always an IRS on F900EX
37	CB6-1	Sensor 4 Type	Sensor 4 is not allowed on F900EX
38	CB6-2	Radio Type - 3	F900EX will always have A429
39	CB6-3	Radio Type - 2	radios
40	CB6-4	Radio Type - 1	
41	CB6-5	# of ATCs - 2	F900EX will always have 2
42	CB6-6	# of ATCs - 1	ATCs
	CB6-7	1	
43	CB7-0	TCAS Installed	TCAS is optional on F900EX
44	CB7-1	# of ADFs - 2	F900EX will always have 2 ADFs
45	CB7-2	# of ADFs - 1	
46	CB7-3	# of DMEs - 2	F900EX will always have 2 DMEs
47	CB7-4	# of DMEs - 1	
48	CB7-5	# of MLSs - 2	F900EX allows 0, 1, or 2 MLSs
49	CB7-6	# of MLSs - 1	
	CB7-7	1	
50	CB8-0	UTC Clock Control - 3	All combinations allowed
51	CB8-1	UTC Clock Control - 2	
52	CB8-2	UTC Clock Control - 1	
53	CB8-3	IAC Provides WX Control	IAC never provides WX Control on F900EX
54	CB8-4	# of Rad Alts	F900EX allows 1 or 2 rad alts
55	CB8-5	Cat II ILS Enabled	All combinations allowed
56	CB8-6	Cat II MLS Enabled	All combinations allowed
	CB8-7	1	
57	CB9-0	LBS/KGS Select	All combinations allowed

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

DISCRETE	BYTE/BIT	GENERIC DESCRIPTION	NOTES
58	CB9-1	Slip-Skid Enabled	All combinations allowed
59	CB9-2	ASCB Sensor Types Ignored by FMS	All combinations allowed
60	CB9-3	ACARS Installed	ACARS is not allowed on the F900EX
61	CB9-4	AT Installed in this IAC	IAC 3 has an autothrottle, IACs 1 and 2 do not
62	CB9-5	SPARE	
63	CB9-6	SPARE	
	CB9-7	1	
64	CB10-0	Ctr Fuel Tank Temp Enabled	All combinations allowed
65	CB10-1	SPARE	
66	CB10-2	SPARE	
67	CB10-3	HGS Installed	HGS is optional on F900EX
68	CB10-4	SPARE	
69	CB10-5	SPARE	
70	CB10-6	SPARE	
	CB10-7	1	
71	CB11-0	SPARE	
72	CB11-1	GPWS Installed	GPWS is optional on F900EX
73	CB11-2	SPARE	
74	CB11-3	SPARE	
75	CB11-4	FD Operation Mode - 2	Bezel selectable options not
76	CB11-5	FD Operation Mode - 1	allowed on F900EX
77	CB11-6	SPARE	
	CB11-7	1	
78	CB12-0	AIRCRAFT ID 1	F900EX ID 1-6 = 010100
79	CB12-1	AIRCRAFT ID 2	
80	CB12-2	AIRCRAFT ID 3	
81	CB12-3	AIRCRAFT ID 4	
82	CB12-4	AIRCRAFT ID 5	
83	CB12-5	AIRCRAFT ID 6	
84	CB12-6	SPARE	
	CB12-7	1	

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

The following pages will define the discretes for the configuration module:

- Jumper Installed = Logic 0
- Jumper Removed = Logic 1

of ASCB Attitude Sensors Installed - 2 Discretes

# of ASCB Attitude Sensors Installed	Config #2	Config #1
Dual ASCB Att Sensors	0	0
Triplex ASCB Att Sensors	0	1
Quad ASCB Att Sensors	1	0
Invalid	1	1

of Air Data's Installed - 2 Discretes

# of Air Data's Installed	Config #4	Config #3
Dual Air Data's	0	0
Triplex Air Data's	0	1
Quad Air Data's	1	0
Invalid	1	1

of EFIS/FWC's Installed - 2 Discretes

# of EFIS/FWC's Installed	Config #6	Config #5
Dual EFIS/FWC's	0	0
Triplex EFIS/FWC's	0	1
Quad EFIS/FWC's	1	0
Invalid	1	1

Lightning Sensor Installed - 1 Discrete

Lightning Sensor Installed	Config #7
Lightning Sensor Not Installed	0
Lightning Sensor Installed	1

AFCS Not Installed in this IAC

AFCS Not Installed in this IAC	Config #8
AFCS Installed in this IAC	0
AFCS Not Installed in this IAC	1

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

FMS Not Installed in this IAC

FMS Not Installed in this IAC	Config #9
FMS Installed in this IAC	0
FMS Not Installed in this IAC	1

of FMS's Installed - 2 Discretes

# of FMS's Installed	Config #11	Config #10
No FMS	0	0
Single FMS	0	1
Dual FMS	1	0
Triplex FMS	1	1

A429 LRN #1 Configuration - 3 Discretes

A429 LRN #1 Configuration	Config #17	Config #16	Config #15
Spare (Low Speed)	0	0	0
IRS (High Speed)	0	0	1
Omega (Low Speed)	0	1	0
Spare (High Speed)	0	1	1
GPS (Low Speed)	1	0	0
GPS (High Speed)	1	0	1
Spare (High Speed)	1	1	0
Spare (Low Speed)	1	1	1

A429 LRN #1 Number - 2 Discretes

A429 LRN #1 Number	Config #19	Config #18
LRN #0	0	0
LRN #1	0	1
LRN #2	1	0
LRN #3	1	1

Dual/Single Autopilot Installed - 1 Discrete

Dual/Single Autopilot Installed	Config #20
Dual Autopilot Installed	0
Single Autopilot Installed	1

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

AFIS Installed - 1 Discrete

AFIS Installed	Config #21
AFIS Not Installed	0
AFIS Installed	1

A429 LRN #2 Configuration - 3 Discretes

A429 LRN #2 Configuration	Config #24	Config #23	Config #22
Spare (Low Speed)	0	0	0
IRS (High Speed)	0	0	1
Omega (Low Speed)	0	1	0
Spare (High Speed)	0	1	1
GPS (Low Speed)	1	0	0
GPS (High Speed)	1	0	1
Spare (High Speed)	1	1	0
Spare (Low Speed)	1	1	1

A429 LRN #2 Number - 2 Discretes

A429 LRN #2 Number	Config #26	Config #25
LRN #0	0	0
LRN #1	0	1
LRN #2	1	0
LRN #3	1	1

FMS Operational Mode - 2 Discretes

FMS Operational Mode	Config #28	Config #27
Dual	0	0
Independent	0	1
Single	1	0
CDU Mode Control	1	1

NOTE: If the Dual Mode Control is selected, the dynamic discretes **'Initiated Transfer - Transmit'** (J1B-081) and **'Initiated Transfer - Receive'** (J1B-080) must be grounded. If these discretes are not grounded, then the initiated transfer discretes shall determine the mode, usually with external switches connected to these inputs.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

A429 LRN #3 Configuration - 3 Discretes

A429 LRN #3 Configuration	Config #31	Config #30	Config #29
Spare (Low Speed)	0	0	0
IRS (High Speed)	0	0	1
Omega (Low Speed)	0	1	0
Spare (High Speed)	0	1	1
GPS (Low Speed)	1	0	0
GPS (High Speed)	1	0	1
Spare (High Speed)	1	1	0
Spare (Low Speed)	1	1	1

A429 LRN #3 Number - 2 Discretes

A429 LRN #3 Number	Config #33	Config #32
LRN #0	0	0
LRN #1	0	1
LRN #2	1	0
LRN #3	1	1

ASCB Sensor #1 Default Type - 1 Discrete

ASCB Sensor #1 Default Type	Config #34
AHRS or No Sensor	0
IRS Installed	1

ASCB Sensor #2 Default Type - 1 Discrete

ASCB Sensor #2 Default Type	Config #35
AHRS or No Sensor	0
IRS Installed	1

ASCB Sensor #3 Default Type - 1 Discrete

ASCB Sensor #3 Default Type	Config #36
AHRS or No Sensor	0
IRS Installed	1

ASCB Sensor #4 Default Type - 1 Discrete

ASCB Sensor #4 Default Type	Config #37
AHRS or No Sensor	0
IRS Installed	1

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

Radio Interface Type - 3 Discretes

Radio Interface Type	Config #40	Config #39	Config #38
Honeywell - RSB Radios	0	1	0
A429-PROLINE	0	0	1

of ATC's Installed - 2 Discretes

# of ATC's Installed	Config #42	Config #41
No ATC	0	0
Single ATC	0	1
Dual ATC	1	0
Triplex ATC	1	1

TCAS Installed - 1 Discrete

TCAS Installed	Config #43
TCAS Not Installed	0
TCAS Installed	1

of ADF's Installed - 2 Discretes

# of ADF's Installed	Config #45	Config #44
No ADF	0	0
Single ADF	0	1
Dual ADF	1	0
Triplex ADF	1	1

of DME's Installed - 2 Discretes

# of DME's Installed	Config #47	Config #46
No DME	0	0
Single DME	0	1
Dual DME	1	0
Triplex DME	1	1

of MLS's Installed - 2 Discretes

# of MLS's Installed	Config #49	Config #48
No MLS	0	0
Single MLS	0	1
Dual MLS	1	0
Triplex MLS	1	1

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

UTC Clock Control Internal to IAC - 3 Discretes

UTC Clock Control Internal to IAC	Config #52	Config #51	Config #50
Priority	0	0	0
FMS Controls the UTC Clock	0	0	1
FWC Controls the UTC Clock	0	1	0
Priority	0	1	1
External Clock Controls the UTC	1	0	0
Priority	1	0	1
Priority	1	1	0
Priority	1	1	1

For the Priority cases, a priority scheme is used to select the source of clock control. The order of priority from highest to lowest is External Clock, FMS, and FWC. All sources are examined from highest priority to lowest. The first valid source encountered is used to control the clock.

IAC Transmits WX Control via RS-422

IAC Transmits WX Control via RS-422	Config #53
No WX Control via RS-422	0
WX Control via RS-422	1

Dual Rad Alt Installed

Dual Rad Alt Installed	Config #54
Single Rad Alt	0
Dual Rad Alt	1

Cat II ILS Enabled - 1 Discrete

Cat II ILS Enabled	Config #55
Cat II ILS Not Enabled	0
CAT II ILS Enabled	1

Cat II MLS Enabled - 1 Discrete

Cat II MLS Enabled	Config #56
Cat II MLS Not Enabled	0
CAT II MLS Enabled	1

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

LBS/KGS Selected for Display - 1 Discrete

LBS/KGS Selected for Display	Config #57
LBS Selected for Display	0
KGS Selected for Display	1

Slip-Skid Enabled - 1 Discrete

Slip-Skid Enabled	Config #58
Slip-Skid Not Enabled	0
Slip-Skid Enabled	1

Default ASCB Sensor Types Ignored by FMS - 1 Discrete

Default ASCB Sensor Types Ignored by FMS	Config #59
Default Sensor Types Not Ignored	0
Default Sensor Types Ignored	1

When Config #59 = 0, the default sensor types (config #34-37) are used and failure indications are defined from these discretes. When Config #59 = 1, the default sensor types (config #34-37) are not used and a generic sensor type is used. This discrete is used by FMS only.

ACARS Installed - 1 Discrete

ACARS Installed	Config #60
ACARS Not Installed	0
ACARS Installed	1

At Installed in this IAC - 1 Discrete

AT Installed in this IAC	Config #61
AT Not Installed in this IAC	0
AT Installed in this IAC	1

Center Fuel Tank Temp Enabled - 1 Discrete

Center Fuel Tank Temp Enabled	Config #64
Center Fuel Temp Not Enabled	0
Center Fuel Temp Enabled	1

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Table 3-1. Interconnect Information (cont)

HGS Installed - 1 Discrete

HGS Installed	Config #67
HGS Not Installed	0
HGS Installed	1

GPWS Installed - 1 Discrete

GPWS Installed	Config #72
GPWS Not Installed	0
GPWS Installed	1

FD Operation Mode - 2 Discretes

FD Operation Mode	Config #76	Config #75
Bezel Selectable - Independent FD	0	0
No Bezel Control - Cross Pointer	0	1
Bezel Selectable - Same FD on both sides (synch)	1	0
No Bezel Control - Single Cue	1	1

Aircraft Identification - 6 Discretes

Aircraft Ident	Config #83	Config #82	Config #81	Config #80	Config #79	Config #78
FALCON 900EX	0	0	1	0	1	0

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

TABLE OF CONTENTS - SECTION 4

SECTION/PARAGRAPH/TITLE			PAGE
4	MAINTENANCE PRACTICES		4-1
	1.	General	4-1
	2.	Equipment and Materials	4-1
	3.	Procedure for the AT-300 Radio Altimeter Antenna	4-2
	4.	Procedure for the AZ-840 Micro Air Data Computer (MADC)	4-4
	5.	Procedure for the BL-871 Bezel Assembly	4-5
	6.	Procedure for the CD-810 Control Display Unit	4-6
	7.	Procedure for the DA-800 Data Acquisition Unit (DAU)	4-7
	8.	Procedure for the DC-840 Display Controller	4-8
	9.	Procedure for the DL-900 Data Loader	4-11
	10.	Procedure for the DU-870 Display Units	4-12
	11.	Procedure for the GC-810 Flight Guidance Controller	4-14
	12.	Procedure for the Global Navigation System Sensor Unit (GNSSU)	4-17
	13.	Procedure for the IC-800 Integrated Avionics Computer (IAC)	4-18
	14.	Procedure for the IM-803 Installation Module	4-24
	15.	Procedure for the Inertial Reference Unit (IRU)	4-25
	16.	Procedure for the IRU Mounting Tray Fan Filter	4-26
	17.	Procedure for the IRU Mounting Tray Fan	4-27
	18.	Procedure for the IRU Mounting Tray	4-29
	19.	Procedure for the Mode Select Unit (MSU)	4-34
	20.	Procedure for the RC-820 Reversionary Controller	4-35
	21.	Procedure for the RC-841 Reversionary Controller	4-37
	22.	Procedure for the RT-300 Radio Altimeter Receiver Transmitter	4-39
	23.	Procedure for the SM-200 Servo Drive, and the SB-201 Drum and Bracket Assembly	4-41
	24.	Procedure for the SM-725 Linear Actuator	4-43
	25.	Procedure for the SM-810 Autothrottle Servo	4-45
	26.	Procedure for the WC-880 Weather Radar Controller	4-47
	27.	Procedure for the WU-870 Antenna and Receiver Transmitter Unit	4-48

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

TABLE OF CONTENTS - SECTION 4 (Cont)

List of Illustrations

FIGURE/TITLE **PAGE**

Figure 4-1. AT-300 Radio Altimeter Antenna Orientation 4-3
Figure 4-2. IC-800 IAC Test Connector Harness 4-23
Figure 4-3. IRU Mounting Tray Fan Housing 4-27
Figure 4-4. AHRU/IRU Leveling Fixture 4-32
Figure 4-5. RT-300 Zero Adjustment Cable 4-40
Figure 4-6. SM-725 Actuator Complete Assembly 4-44

List of Tables

TABLE/TITLE **PAGE**

Table 4-1. Degree-Radian Conversion 4-31

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

SECTION 4
MAINTENANCE PRACTICES

1. General

This section provides instructions for removing, reinstalling, and adjusting each line replaceable unit (LRU) of the PRIMUS® 2000 Integrated Avionics System that has been previously installed by the aircraft manufacturer or completion center. Where applicable, instructions for replacing lamps, knobs and set screws are included. Adjustment information is called out as required.

CAUTIONS: 1. SHOULD ANY INSTALLATION CRITICAL CASES ARISE WITH THE REINSTALLATION OF ANY UNIT, YOU MUST COMPLY 100 PERCENT WITH THE INSTRUCTION.

2. TO PREVENT DAMAGE TO EQUIPMENT, TURN AIRCRAFT POWER OFF WHEN REMOVING OR INSTALLING LRUs.

2. Equipment and Materials

NOTE: Refer to the applicable leading particulars table in SECTION 2 of this manual for replacement gaskets, lamps, knobs and set screw part numbers.

Maintenance materials that are identified with Honeywell Material Number (HMN) are as follows:

- HMN 97D0878, HAZARD CODE 210D
  Retaining compound - Loctite Assure No.425 surface curing threadlocker, Loctite Corp, Newington, CT
- HMN 97P5778, HAZARD CODE 110D
  Adhesive-sealant, high strength, noncorrosive, RTV, silicone (MIL-A-46146, Type III) - No. DC-3145 (translucent) RTV, Dow Corning Corp, Midland, MI

NOTE: Equivalent alternatives are permitted for the materials in this HMN list.

When replacing lamps in the GC-810 Flight Guidance Controller, and a switch pushbutton puller is needed, use an IC puller, Augat, Part No. T-114-1.

Uploading/Downloading of the checklist files requires the following:

- IBM compatible laptop personal computer (PC)
- IAC to PC adapter cable assembly, Dassault Part No. TBD.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

Reinstallation of the mounting tray for the IRU requires the following:

- Leveling Device, Honeywell Part No. UG5046.
- Four sets of shim washers 0.250 in. (6.35 mm) to 0.375 in. (9.52 mm) I. D. and) 0.750 in. (19.05 mm) to 0.875 in. (22.22 mm) O.D. containing the following:
  - Qty 2 at 0.100 in. (2.54 mm) thick
  - Qty 2 at 0.050 in, (1.27 mm) thick
  - Qty 4 at 0.015 in. (0.381 mm) thick
  - Qty 4 at 0.006 in. (0.152 mm) thick.

No additional special equipment or materials other than those commonly used in the shop are required for reinstalling units in existing trays and clamps and adjusting the system. Do not over tighten mounting screws. Where torque values are not given, finger tightening of the mounting screws is acceptable.

3. Procedure for the AT-300 Radio Altimeter Antenna

A. Removal and Reinstallation Procedures

(1) Remove antenna.

(a) Loosen, remove and set aside four No. 10 pan-head screws.

(b) Unseal and remove antenna.

(c) Disconnect cable connectors.

(2) Reinstall antenna.

CAUTION: THE RADIO ALTIMETER MUST BE ORIENTED (POLARIZED) TO MINIMIZE ANTENNA-TO-ANTENNA LEAKAGE. AT-300 ANTENNAS HAVE A SMALL ARROW PAINTED ON THE FACE. THESE ANTENNAS MUST BE MOUNTED SO THAT THE ARROWS POINT TO THE AIRCRAFT CENTERLINE AS SHOWN IN FIGURE 4-1.

(a) Clean the mounting surface well with emery cloth to provide a good ground between the aircraft and antennas. A conductive coating should be used for corrosion prevention. A suitable commercial product is Alodine 1201, which can be brush applied.

(b) Place new gasket, Honeywell Part No. 4010193-6, on antenna.

(c) Connect TNC cable connector.

(d) Mount antenna and apply applicable sealant such as No. DC-3145 RTV.

(e) Install the four No. 10 corrosion resistant steel pan-head screws that were removed and previously set aside.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

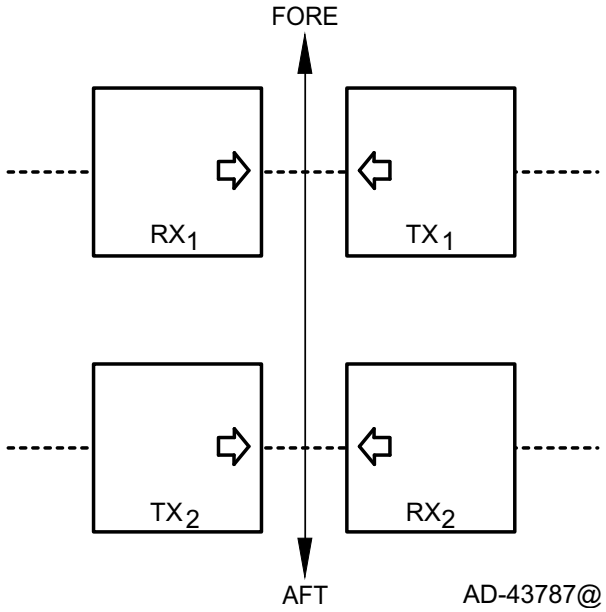


Figure 4-1. AT-300 Radio Altimeter Antenna Orientation

B. Adjustment Procedures

Not Applicable.

C. Repair Procedures

Not Applicable.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

4. Procedure for the AZ-840 Micro Air Data Computer (MADC)

A. Removal and Reinstallation Procedures

(1) Remove MADC.

(a) Disconnect pitot and static lines. Cap or cover hose end connectors to keep debris out of the system.

(b) Disconnect cable connector.

(c) Using a 3/16-inch Allen wrench, loosen jackscrew until hold-down hook releases MADC.

(d) Slide MADC out of tray.

(2) Reinstall MADC.

(a) Slide MADC into mounting tray.

(b) Make sure that the rear boss engages the mounting tray slot.

(c) Make sure that hold-down hook engages boss on MADC and, using a 3/16-inch Allen wrench, tighten jackscrew.

(d) Mate cable connector and unit connector.

(e) Connect pitot and static lines and perform appropriate pitot/static leak check as instructed in the Aircraft Maintenance Manual.

B. Adjustment Procedures

Not Applicable.

C. Repair Procedures

Not Applicable.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

5. Procedure for the BL-871 Bezel Assembly

A. Removal and Reinstallation Procedures

(1) Remove bezel assembly.

(a) Loosen two captive holding screws at ends of bezel assembly.

(b) Gently pull bezel assembly straight away from display unit separating the bezel and display unit connectors.

(2) Reinstall bezel assembly.

(a) Align bezel assembly on the display unit so bezel and display unit connectors mate.

(b) Tighten the captive screws.

B. Adjustment Procedures

Not Applicable.

C. Repair Procedure

Replacement of the BL-871 Bezel Assembly Set Knob

(1) Loosen both setscrews in the knob with a 1/16-inch Allen wrench.

(2) Slide knob off of shaft.

(3) On new knob, make sure that the setscrews are out far enough to allow the knob to slide onto the shaft. Apply retaining compound to setscrews.

(4) Slide the knob onto the shaft.

(5) Make sure that the space between the knob and the bezel is approximately .030 in. (0.8 mm).

(6) Tighten both 6-32 set screws with the Allen wrench.

(7) Visually check the spacing between the knob and the bezel to make sure that the knob has not slipped during installation.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

6. Procedure for the CD-810 Control Display Unit

A. Removal and Reinstallation Procedures

(1) Remove CD-810 Control Display Unit.

(a) Disengage the Dzus fasteners on the unit.

(b) Slide the unit out of the aircraft mounting location and disconnect the cable connector(s).

(2) Reinstall CD-810 Control Display Unit.

(a) Mate the cable connector(s) with the unit connector(s) and slide the unit into the aircraft mounting location.

(b) Engage the Dzus fasteners on the unit.

B. Adjustment Procedures

Not Applicable.

C. Repair Procedures

Not Applicable.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

7. Procedure for the DA-800 Data Acquisition Unit (DAU)

A. Removal and Reinstallation Procedures

(1) Remove DA-800 DAU.

(a) Press up on the inside at the top of the front handle to release the locking lever. Move the locking lever out and down to release the locking cam.

(b) Slowly pull forward on the handle to separate the unit and tray connectors and slide the unit out of the tray.

(c) Stow the locking lever by pressing it up and into the slot in the handle until the latching button clicks into place.

(2) Reinstall DA-800 DAU.

(a) Press up on the inside at the top of the front handle to release the locking lever. Move the locking lever out and down to release the locking cam.

CAUTION: WHEN PLACING THE UNIT ON THE MOUNTING TRAY, DO NOT FORCE FIT. IF MATING IS DIFFICULT, REMOVE THE UNIT AND CHECK FOR CONNECTOR PINS THAT MAY BE BENT OR OUT OF ALIGNMENT. ALSO, VISUALLY CHECK THE ALIGNMENT OF THE RECEPTACLE ON THE MOUNTING TRAY.

(b) Place the unit on the mounting tray. Slide the unit backwards until its connectors are fully engaged with the mating connectors of the mounting tray.

(c) Making sure that the locking cam mates properly with the cam receptacle, move the locking lever up and into the slot in the handle until the locking button clicks into place.

B. Adjustment Procedures

Not Applicable.

C. Repair Procedures

Not Applicable.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

8. Procedure for the DC-840 Display Controller

A. Removal and Reinstallation Procedures

(1) Remove DC-840 Display Controller.

(a) Disengage the Dzus fasteners on the unit.

(b) Slide the unit out of the aircraft mounting location and disconnect the cable connector(s).

(2) Reinstall DC-840 Display Controller.

(a) Mate the cable connector(s) with the unit connector(s) and slide the unit into the aircraft mounting location.

(b) Engage the Dzus fasteners on the unit.

B. Adjustment Procedures

Not Applicable.

C. Repair Procedures

(1) Replacement of the HDG/TRK Knobs and PUSH SYNC Pushbutton

NOTE: The pushbutton setscrews are reached through access holes in the outer knob.

(a) Rotate the outer knob fully CCW.

(b) Use a 0.048 inch O.D., 6 flute, Bristol wrench to loosen the setscrews in the outer knob.

(c) Rotate outer knob until access hole lines up with setscrews on inner PUSH SYNC pushbutton and loosen two setscrews.

(d) Slide the knob and pushbutton off of the shaft.

(e) Rotate knob to HDG position and loosen setscrews.

(f) Slide knob off of shaft.

(g) On new knobs and pushbutton, make sure that the setscrews are out far enough to allow knobs and pushbutton to slide onto shaft. Apply retaining compound to setscrews.

(h) Slide the selector knob onto the shaft. Ensure that the space between the knob and front panel is approximately 0.030 inch (0.8 mm) and tighten setscrews.

(i) Slide the outer knob onto the shaft. Do not tighten setscrews.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

(j) Slide the PUSH SYNC pushbutton onto the shaft.

(k) Align the access holes in the outer knob with the setscrews in the PUSH SYNC pushbutton.

(l) Ensure PUSH SYNC lettering is straight and tighten the PUSH SYNC pushbutton setscrews.

(m) Ensure that the space between the two knobs is approximately 0.030 inch (0.8 mm).

(n) Tighten the knob setscrews.

(o) Visually check the spacing between the knob and front panel to ensure that the knob has not slipped during installation.

(2) Replacement of the BRG Knob

(a) With knob in OFF position, loosen the setscrews with a 0.048 inch O.D., 6 flute, Bristol wrench.

(b) Slide the knob off of the shaft.

(c) On new knob, make sure that the setscrews are out far enough to allow knob to slide onto the shaft. Apply retaining compound to setscrews.

(d) Slide the knob onto the shaft.

(e) Ensure that the space between the knob and the front panel is approximately 0.030 inch (0.8 mm).

(f) Tighten the knob setscrews.

(g) Visually check the spacing between the knob and front panel to ensure that the knob has not slipped during installation.

(3) Replacement of the CRS Knob and PUSH DCT Pushbutton

NOTE: The pushbutton setscrews are reached through access holes in the outer knob.

(a) Rotate the outer knob fully CCW.

(b) Use a 0.060 inch O.D., 6 flute, Bristol wrench to loosen the setscrews in the outer knob.

(c) Rotate outer knob until access hole lines up with setscrews on inner PUSH DCT pushbutton and loosen two setscrews. Use a 0.048 inch O.D., 6 flute, Bristol wrench.

(d) Slide the knob and pushbutton off of the shaft.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

(e) On new knob and pushbutton, make sure that the setscrews are out far enough to allow knobs to slide onto shaft. Apply retaining compound to setscrews.

(f) Slide the outer knob onto the shaft. Do not tighten setscrews.

(g) Slide the PUSH DCT pushbutton onto the shaft.

(h) Align the access holes in the outer knob with the setscrews in the PUSH DCT pushbutton.

(i) Ensure the PUSH DCT lettering is straight and tighten the PUSH DCT pushbutton setscrews.

(j) Ensure that the space between the knob and the front panel is approximately 0.030 inch (0.8 mm).

(k) Tighten the knob setscrews.

(l) Visually check the spacing between the knob and front panel to ensure that the knob has not slipped during installation.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

9. Procedure for the DL-900 Data Loader

A. Removal and Reinstallation Procedures

(1) Remove DL-900 Data Loader.

(a) Disengage the Dzus fasteners on the unit.

(b) Slide the unit out of the aircraft mounting location and disconnect the cable connector(s).

(2) Reinstall DL-900 Data Loader.

(a) Mate the cable connector(s) with the unit connector(s) and slide the unit into the aircraft mounting location.

(b) Engage the Dzus fasteners on the unit.

B. Adjustment Procedures

Not Applicable.

C. Repair Procedures

Not Applicable.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

10. Procedure for the DU-870 Display Units

A. Removal and Reinstallation Procedures

(1) Remove display unit.

(a) Loosen two captive holding screws at ends of bezel assembly.

(b) Gently pull bezel assembly straight away from display unit separating bezel and display unit connector. Set bezel assembly aside.

(c) Using a 3/16-inch Allen wrench, loosen the jackscrew and separate the unit and tray connector(s).

(d) Gently lift the front of the display unit until the jackscrew latch clears the slot in the mounting tray.

(e) Slide the display unit out of the tray.

(2) Reinstall display unit.

CAUTION: WHEN PLACING THE UNIT ON THE MOUNTING TRAY, DO NOT FORCE FIT. IF MATING IS DIFFICULT, REMOVE THE UNIT AND CHECK FOR CONNECTOR PINS THAT MAY BE BENT OR OUT OF ALIGNMENT. ALSO, VISUALLY CHECK THE ALIGNMENT OF THE RECEPTACLE ON THE MOUNTING TRAY.

(a) Slide the display unit into the panel tray, lifting the front of the display unit as necessary to ensure that the jackscrew latch engages the slot in the mounting tray.

(b) Slide the display unit backwards until its connectors are fully engaged with the mating connectors of the mounting tray.

(c) Tighten the jackscrew with a 3/16-inch Allen wrench.

(d) Reinstall bezel assembly.

1 Align the bezel assembly on the display unit.

2 Tighten the captive screws.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

B. Adjustment Procedure

Not Applicable.

C. Repair Procedure

Not Applicable.

D. Cleaning Procedure

Cleaning of the Display Unit Faceplate Filter

NOTE: The display unit faceplate is protected by a filter which reduces reflections. It is sturdy, but it is not indestructible.

(1) Inspect the outside surface for foreign material and variations in optical quality.

(2) Particles of grit, dirt, or sand are to be removed with pressurized dry air or a soft camel-hair brush.

(3) Dampen a clean piece of lint free cloth with isopropyl alcohol or ammoniated cleaner. Do not use household paper towels.

(4) Carefully rub the unclean portion of the filter with the damp cloth.

(5) Repeat steps (2) and (3) as necessary until the filter is clean.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

11. Procedure for the GC-810 Flight Guidance Controller

A. Removal and Reinstallation Procedures

(1) Remove GC-810 Flight Guidance Controller.

(a) Disengage the Dzus fasteners on the unit.

(b) Slide unit out of panel.

(c) Disconnect cable connectors.

(2) Reinstall GC-810 Flight Guidance Controller.

(a) Mate cable connectors with unit connectors and slide unit into panel.

(b) Engage the Dzus fasteners on the unit.

B. Adjustment Procedures

Not Applicable.

C. Repair Procedures

(1) Replacement of the Pushbutton Switch Lamps

CAUTION: BE CAREFUL TO AVOID CRACKING THE PLASTIC SWITCH PUSHBUTTON WHEN PERFORMING STEP 11.C.(1)(a).

NOTE: Access to these lamps does not require removing the controller from the instrument panel.

(a) Use an IC puller and insert the tips into the notch at the top and bottom or on each side of the switch pushbutton. Gently pull straight out until the pushbutton assembly moves out from the switch housing.

(b) Grasp the pushbutton assembly and slide it out until it reaches its stop and then let the pushbutton assembly hinge down.

(c) Remove and replace the defective lamp.

(d) Hinge the pushbutton assembly up and slide the assembly back into the housing until it locks into position.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

(2) Replacement of the IAS/MACH Knobs and PUSH CHG Pushbutton

NOTE: The pushbutton setscrews are reached through access holes in the outer knob.

(a) Rotate the outer knob fully CCW.

(b) Use a 0.048 inch O.D., 6 flute, Bristol wrench to loosen the setscrews in the outer knob.

(c) Rotate outer knob until access hole lines up with setscrews on inner PUSH CHG pushbutton and loosen two setscrews.

(d) Slide the knob and pushbutton off of the shaft.

(e) Rotate knob to MAN position and loosen setscrews.

(f) Slide knob off of shaft.

(g) On new knobs and pushbutton, make sure that the setscrews are out far enough to allow knobs and pushbutton to slide onto shaft. Apply retaining compound to setscrews.

(h) Slide the selector knob onto the shaft. Ensure that the space between the knob and front panel is approximately 0.030 inch (0.8 mm) and tighten setscrews.

(i) Slide the outer knob onto the shaft. Do not tighten setscrews.

(j) Slide the PUSH CHG pushbutton onto the shaft.

(k) Align the access holes in the outer knob with the setscrews in the PUSH TEST pushbutton.

(l) Ensure PUSH CHG lettering is straight and tighten the PUSH CHG pushbutton setscrews.

(m) Ensure that the two knobs are spaced approximately 0.030 inch (0.8 mm) so they do not rub against each other.

(n) Tighten the knob setscrews.

(o) Visually check the spacing between the knobs and front panel to ensure that the knob has not slipped during installation.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

(3) Replacement of the MINIMUM Knobs

(a) Rotate both knobs fully CCW.

(b) Use a 0.048 inch O.D., 6 flute, Bristol wrench to loosen the setscrews on each knob.

(c) Slide the knobs off the shaft.

(d) On new knobs, make sure that the setscrews are out far enough to allow knobs to slide onto shaft. Apply retaining compound to setscrews.

(e) Slide the selector knob onto the shaft so notch aligns with DH. Ensure that the space between the knob and front panel is approximately 0.030 inch (0.8 mm) and tighten setscrews.

(f) Slide the inner knob onto the shaft making sure that the knob does not rub against the selector knob.

(g) Tighten the knob setscrews.

(h) Recheck to make sure that the inner knob has not slipped during installation and is not rubbing against the selector knob.

(4) Replacement of the ASEL Knob

(a) Loosen the setscrews with a 0.048 inch O.D., 6 flute, Bristol wrench.

(b) Slide the knob off of the shaft.

(c) On new knob, make sure that the setscrews are out far enough to allow knob to slide onto the shaft. Apply retaining compound to setscrews.

(d) Slide the knob onto the shaft.

(e) Ensure that the space between the knob and the front panel is approximately 0.030 inch (0.8 mm).

(f) Tighten the knob setscrews.

(g) Visually check the spacing between the knob and front panel to ensure that the knob has not slipped during installation.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

12. Procedure for the Global Navigation System Sensor Unit (GNSSU)

A. Removal and Reinstallation Procedures

(1) Remove GNSSU.

(a) Disconnect aircraft cable and antenna connectors.

(b) Remove and set aside four screws and washers securing GNSSU to airframe.

(2) Reinstall GNSSU.

(a) Secure the GNSSU to airframe using the four 10-32 screws, lockwashers, and flat washers that were removed and set aside.

(b) Mate unit connectors with appropriate antenna and cable connectors.

B. Adjustment Procedures

Not Applicable.

C. Repair Procedures

Not Applicable.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

13. Procedure for the IC-800 Integrated Avionics Computer (IAC)

CAUTION: IF AN IC-800 IS REMOVED FROM THE AIRCRAFT AND REPLACED WITH AN IC-800 FROM CUSTOMER OWNED SHELF STOCK OR WAS OBTAINED FROM DASSAULT OR HONEYWELL, IT MAY BE NECESSARY TO DOWNLOAD THE CUSTOM AND NAVIGATION DATA BASE AND CHECKLIST FILES FROM THE MEMORY TO A 3.5-INCH DISKETTE. BOTH THE NAVIGATION AND CUSTOM DATABASE AND THE CHECKLIST WILL NEED TO BE UPLOADED TO THE REPLACEMENT IC-800. REFER TO PROCEDURES IN PARAGRAPH 13.B.

NOTES:
1. The custom database is made up of flight plans and pilot defined waypoints. This database can be loaded from a disc, if available, or cross-loaded from one of the other IACs. Please refer to your company's flight operations department for availability of custom data base information on disc.
2. Through the use of the DL-900 Data Loader, you have the option to transfer the custom database to 3.5-inch floppy diskettes. Also, you have the option to transfer the custom or navigation database from disc to the IAC.

A. Removal and Reinstallation Procedures

(1) Remove IC-800 IAC.

(a) Loosen the mounting tray hold-down knob.

(b) Slowly pull forward on the unit handle to separate the unit and tray connectors and slide the unit out of the tray.

(2) Reinstall IC-800 IAC.

CAUTION: WHEN PLACING THE UNIT ON THE MOUNTING TRAY, DO NOT FORCE FIT. IF MATING IS DIFFICULT, REMOVE THE UNIT AND CHECK FOR CONNECTOR PINS THAT MAY BE BENT OR OUT OF ALIGNMENT. ALSO, VISUALLY CHECK THE ALIGNMENT OF THE RECEPTACLE ON THE MOUNTING TRAY.

(a) Slide the unit into the mounting tray.

(b) Slide the unit backwards until its connectors are fully engaged with the mating connectors of the mounting tray.

(c) If necessary, gently lift the front of the unit to ensure that the hold-down assembly mates properly with the tray hold-down hooks.

(d) Tighten the hold-down knob.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

B. Data Load and Data Transfer Procedures

(1) Loading the Navigation Database from the DL-900 Data Loader

NOTE: Every 28 days the FMS navigation database in the IC-800 IAC must be updated. The loading of the new navigation data base can only be accomplished while the aircraft is on the ground.

(a) Apply power to the data loader using the appropriate aircraft circuit breaker.

(b) Push POWER switch on data loader. The POWER LED shall light and after the powerup BITE sequence is completed, the DATA LED shall light.

(c) On data loader, select LEFT or RIGHT or if the third FMS is installed, select AUX.

(d) Insert navigation database disc in data loader.

(e) On the CD-810 Control Display Unit (CDU), select the DATA LOAD page from the NAV INDEX, page 2.

(f) On the DATA TO BE LOADED page, select NAV DB.

(g) On the TRANSFER OF NAV DB page, select FR LOADER.

(h) On the CONFIRM TRANSFER OF NAV DB page, confirm selection by selecting YES or NO.

(i) Monitor % of loading progress. In the case of the worldwide database, the IAC/FMS prompts for insertion of more than one disc. The IAC/FMS automatically begins reading the next disc. When complete, the message DB TRANSFER COMPLETE is displayed and the IAC/FMS does a restart.

NOTE: The data load process must be repeated from the beginning when power is interrupted, ABORT is selected, or other problems that stop the loading process occur.

(j) Repeat steps (d) through (j) for each IAC/FMS that needs to be updated.

(k) Remove disc and turn off data loader. Remove from aircraft if not permanently installed.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

(2) Transferring the Custom Database To or From the DL-900 Data Loader

The custom database can be transferred to or from the data loader. When loading the custom database from the data loader, the custom database is completely replaced by the contents of the disc including stored flight plans and pilot defined waypoints. When transferring the custom database to a disc, both the pilot defined waypoints and flight plans are transferred. This option keeps a permanent record of the custom database for loading in case of IAC replacement or other losses of the custom database. Refer to the following steps to transfer the custom database:

(a) If the DL-900 Data Loader is not installed in the aircraft, connect the data loader cable to the aircraft connector.

(b) Apply power to the data loader using the appropriate aircraft circuit breaker.

(c) Push POWER switch on data loader. The POWER LED shall light and after the powerup BITE sequence is completed, the DATA LED shall light.

(d) On data loader, select LEFT or RIGHT or if the third FMS is installed, select AUX.

(e) If transferring from the data loader to the IAC, insert custom data base disc in data loader. If transferring from the IAC to the data loader, insert a formatted disc. If a disc needs formatting, use the MAINTENANCE page option.

(f) On the CD-810 Control Display Unit (CDU), select the DATA LOAD page from the NAV INDEX, page 2.

(g) On the DATA TO BE LOADED page, select CUSTOM DB.

(h) On the TRANSFER OF CUSTOM DB page, select TO LOADER or FR LOADER depending on whether you are transferring data from or to the data loader.

(i) On the CONFIRM TRANSFER OF CUSTOM DB page, confirm selection by selecting YES or NO.

(j) Monitor % of loading progress. When complete, the message DB TRANSFER COMPLETE is displayed. The IAC/FMS does a restart in the case where the custom database was loaded from the data loader.

NOTE: The data load process must be repeated from the beginning when power is interrupted, ABORT is selected, or other problems that stop the loading process occur.

(k) Remove disc and turn off data loader. Remove from aircraft if not permanently installed.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

(3) Transferring the Navigation or Custom Database Between IACs

The custom or navigation database can be transferred from one IAC to the other IAC. Only the custom database can be transferred in flight. In order to transfer data, both IACs must be turned on and have compatible software versions. All of the following steps can be completed from just one of the CD-810 Control Display Units.

(a) On the CD-810 Control Display Unit (CDU), select the DATA LOAD page from the NAV INDEX, page 2.

(b) On the DATA TO BE LOADED page, select CUSTOM DB, NAV DB, or BOTH depending on what data is to be transferred.

NOTE: If the optional third FMS is not installed, do not perform step 13.B.(3)(c). If a third FMS is installed, perform step 13.B.(3)(c) before performing step (d).

(c) On the NAV MAINTENANCE page, select a dual configuration of the FMS, i.e. FMS 1 to FMS 3 or FMS 2 to FMS 3. Perform step 13.B.(3)(d) and substitute FMS 3 for FMS 1 or 2 depending on the dual configuration selected.

(d) On the TRANSFER OF CUSTOM DB or NAV DB page, select TO FMS 2 or FR FMS 2 depending on whether you are transferring data from FMS 1 (IAC 1) to FMS 2 (IAC 2) or from FMS 2 (IAC 2) to FMS 1 (IAC 1), respectively.

NOTE: It is important that the direction of transfer be correct. The affected database in the receiving IAC is erased and lost when the transfer begins.

(e) On the CONFIRM TRANSFER OF CUSTOM DB or NAV DB page, confirm selection by selecting YES or NO.

(f) Monitor % of loading progress. When complete, the message DB TRANSFER COMPLETE is displayed. The IAC/FMS does a restart.

NOTE: The data load process must be repeated from the beginning when power is interrupted, ABORT is selected, or other problems that stop the loading process occur.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

(4) Transferring the Checklist From or To the IAC

(a) Connect the IAC to PC adapter harness to the two test connectors located in the cockpit in the pilot's side panel below the DL-900 Data Loader.

(b) Connect the PC to the adapter harness.

(c) Connect the PC to external power and power up the aircraft and the PC.

(d) Using the PC checklist software, select the upload or download checklist menu as applicable and follow the instructions.

(e) When the checklist upload/download is complete, power down the PC and the aircraft.

C. Repair Procedures

Replacement of the Battery

CAUTION: THE BATTERY IS LITHIUM AND MUST BE DISPOSED OF PROPERLY.

(1) Check battery.

(a) Locate the battery housing (this is positioned at the left rear corner, adjacent to the fan). Loosen the three screws that hold the battery cover and remove the cover.

NOTE: If a Honeywell quality inspection seal is covering one of the screws, remove the seal completely using isopropyl alcohol.

(b) Locate the small connector connected to the battery. Probe the contacts of the connector and measure the battery voltage while under load.

NOTE: The three pins on the connector have positive voltage on the center pin and the other two pins are both common and are attached to the negative terminal of the battery.

(c) Replace any batteries with a voltage reading of less than 2.4 volts DC.

(2) Remove battery.

(a) Locate the 50 pin test connector on the IAC; it is positioned under a small plate on the front panel. Remove the two screws that hold the plate to gain access to the test connector.

(b) Use a 50-pin mating connector to fabricate a small harness. See Figure 4-2 for a diagram of the harness.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

(c) Attach the harness to the test connector and connect the test harness batteries.

NOTE: The test harness batteries will be used to maintain the RAM power during battery exchange, which will avoid loss of data.

(d) Separate the small connector from the IAC, and use the connector and wires to slowly extract the battery from the computer.

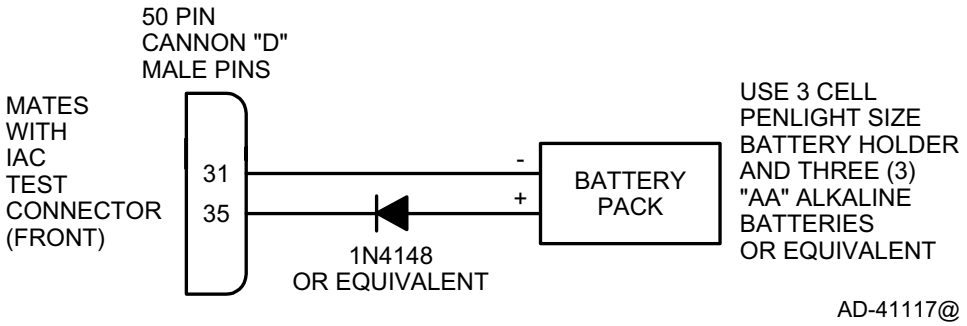


Figure 4-2. IC-800 IAC Test Connector Harness

(3) Install new battery.

(a) Install a new battery (Honeywell Part Number 7014664-902) and reinstall the connector.

(b) Check and record the replacement battery voltage by probing the pins at the connector as described in paragraph 13.C.(1)(b).

(c) Make sure that the battery connector fits in the recessed slot and reinstall and secure the battery cover.

(d) Apply your quality inspection (tamper evident) seal to one of the screws on the top of the battery cover.

(e) Remove the test connector harness and reinstall the test connector plate and hardware.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

14. Procedure for the IM-803 Installation Module

NOTE: The IM-803 defines the configuration of the aircraft in which the IAC is installed and is located on the side of the IAC.

A. Removal and Reinstallation Procedures

(1) Remove IM-803.

(a) Loosen the two captive screws that attach the module to the enclosure.

(b) Grasp the handle and slide the module out of the enclosure.

(2) Reinstall IM-803.

CAUTION: IF THE IM-803 IS REMOVED FROM THE AIRCRAFT AND REPLACED WITH AN IM-803 FROM CUSTOMER OWNED SHELF STOCK OR WAS OBTAINED FROM DASSAULT OR HONEYWELL, THE CONFIGURATION STRAPS WILL HAVE TO BE CUT IN ACCORDANCE WITH THE LIST IN SECTION 3 AND THE PROCEDURE IN PARAGRAPH 14.B. OF THIS MANUAL.

(a) Carefully slide the module into the enclosure.

(b) Tighten the two captive screws.

B. Adjustment Procedure

Cutting Configuration Straps

CAUTIONS:
1. BE VERY CAREFUL WHEN CUTTING CONFIGURATION STRAPS SO AS NOT TO DAMAGE THE CIRCUIT CARD ASSEMBLY.
2. PERFORM STRAP CUTTING IN AN ELECTROSTATICALLY SAFE ENVIRONMENT TO PREVENT DAMAGE TO THE CIRCUIT CARD ASSEMBLY.
3. ALWAYS TRANSPORT THE CIRCUIT CARD ASSEMBLY IN ITS ENCLOSURE OR IN AN ANTISTATIC BAG.

(1) Loosen the two captive screws that attach the module to the enclosure.

(2) Grasp the handle and slide the module containing the circuit card assembly out of the enclosure.

(3) Using a pair of diagonal cutters, cut the straps (jumper wires) in two places and remove the wire fragment. Refer to SECTION 3 of this manual for a listing of the jumpers to be cut.

(4) After cutting all the required jumpers, install the module in its enclosure and secure with the two captive screws.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

C. Repair Procedures

Not Applicable.

15. Procedure for the Inertial Reference Unit (IRU)

A. Removal and Reinstallation Procedures

CAUTION: IF THE IRU MOUNTING TRAY IS MOVED IN ANY DIRECTION, A COMPLETE TRAY ALIGNMENT MUST BE DONE. REFER TO PROCEDURE IN PARAGRAPH 18.

(1) Remove IRU.

(a) Loosen the two thumb wheel clamps until they disconnect from the support hooks.

(b) Slide the unit out of the mounting tray.

(2) Reinstall IRU.

CAUTION: WHEN PLACING THE UNIT ON THE MOUNTING TRAY, DO NOT FORCE FIT. IF MATING IS DIFFICULT, REMOVE THE UNIT AND CHECK FOR CONNECTOR PINS THAT MAY BE BENT OR OUT OF ALIGNMENT. ALSO, VISUALLY CHECK THE ALIGNMENT OF THE RECEPTACLE ON THE MOUNTING TRAY.

(a) Place the unit on the mounting tray. Slide it onto the three guide pins. Slide the unit backwards until its connectors are fully engaged with the mating connectors of the mounting tray.

(b) Secure the unit in place by tightening the two thumb wheel clamps over the support hooks.

B. Adjustment Procedure

Not Applicable.

C. Repair Procedures

Not Applicable.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

16. Procedure for the IRU Mounting Tray Fan Filter

NOTE: In a new installation, the filter should be cleaned or replaced after approximately 100 hours of operation and then approximately every 300 hours to 500 hours depending on the environmental conditions.

A. Removal and Reinstallation Procedures

(1) Remove filter.

Pull up on the removal tab to separate filter from the fan.

(2) Reinstall filter.

Align the cutout area on the bottom of the filter with the wires on the fan and press down on the filter until it snaps into place.

B. Adjustment Procedures

Not Applicable.

C. Repair Procedures

Not Applicable.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

17. Procedure for the IRU Mounting Tray Fan

NOTE: Refer to Figure 4-3, when performing the procedures for IRU Mounting Tray Fan.

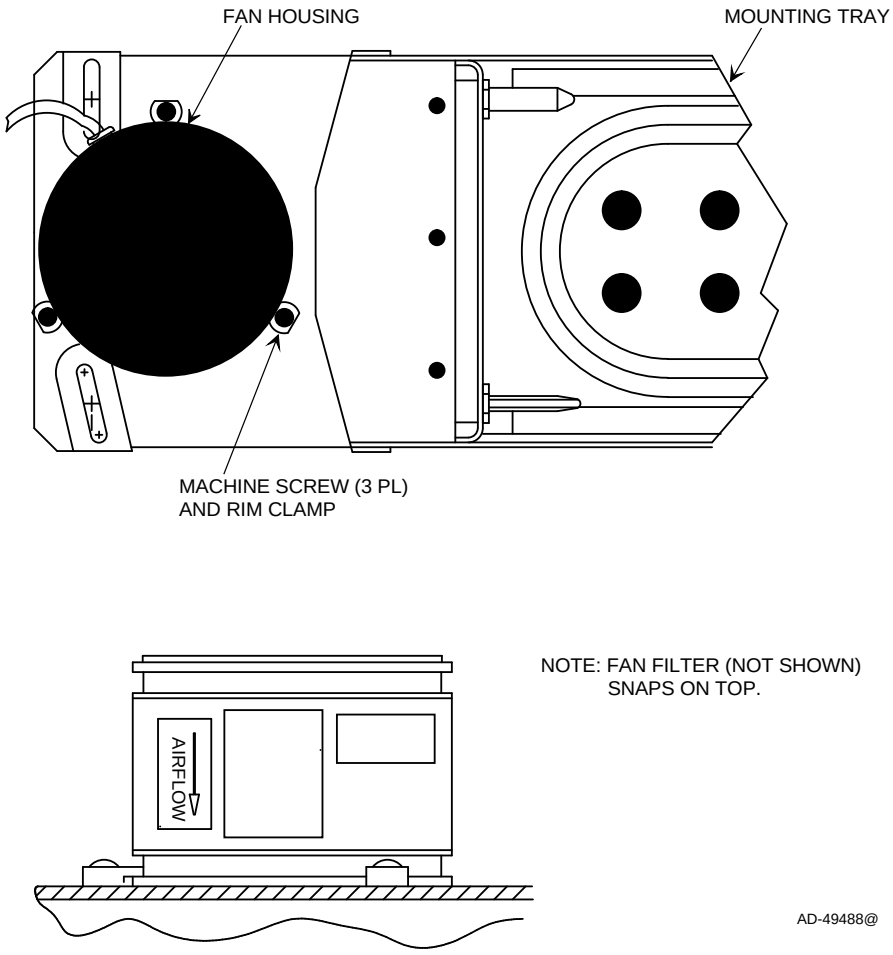


Figure 4-3. IRU Mounting Tray Fan Housing

A. Removal and Reinstallation Procedures

(1) Remove fan.

(a) Remove the fan filter as previously instructed in paragraph 16.A.(1).

(b) There are two wires (one red, one black) coming out of the fan housing (see Figure 4-3). Disconnect these wires at their source.

(c) Turn the rim clamps until the flat edge of each clamp is facing toward the fan.

(d) Separate the fan from the fan mounting plate.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

(2) Reinstall fan.

(a) Place the fan in position on mounting tray, making sure that the AIRFLOW arrow on the fan points down.

(b) Secure the fan to the base of the tray with three rim clamps. Make sure that the flat edge of the rim clamp faces away from the fan.

(c) Connect the red wire to the 28 V dc source.

(d) Connect the black wire to the ground source.

B. Adjustment Procedures

Not Applicable.

C. Repair Procedures

Not Applicable.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

18. Procedure for the IRU Mounting Tray

CAUTION: THE PHYSICAL/MECHANICAL INSTALLATION OF THE MOUNTING TRAY FOR THE IRU HAS A VERY LARGE EFFECT ON THE ACCURACY OF ATTITUDE AND HEADING DATA. DO NOT REMOVE THE TRAY UNLESS IT HAS BEEN DAMAGED OR DEFORMED.

A. Removal and Reinstallation Procedures

(1) Remove mounting tray.

(a) Remove unit, fan and filter as instructed in paragraphs 15, 16, and 17.

(b) Remove and set aside the four nuts, four washers and four screws that attach the ARINC 600 connector to the rear of the mounting tray.

(c) Detach the ARINC 600 connector.

(d) Remove and set aside the four screws and four washers that attach the mounting tray to the airframe.

(2) Reinstall mounting tray.

NOTE: The accuracy of attitude angle indication is directly dependent upon the accuracy with which the IRU is aligned with the aircraft axes. The mounting tray must be installed with a relative alignment accuracy of ±0.2 degree in the pitch, roll and yaw axes.

(a) Using the mounting hardware previously removed and set aside, attach the mounting tray to the airframe. Screws should be tight enough to prevent movement of the tray.

(b) Using the connector hardware previously removed and set aside, install the ARINC 600 connector, making sure to leave a maintenance loop in the harness of sufficient length so as not to apply any pressure on the mounting tray.

(c) Level the tray in accordance with one of the two methods specified in paragraphs 18.B.(1) and (2).

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

B. Adjustment Procedures

Align the mounting tray with the three axes of the aircraft using leveling device, Honeywell Part No. UG5046 in accordance with one of the following two methods specified in paragraphs 18.B.(1) and (2).

NOTE: These procedures outline several methods of tray alignment. The user or installer should ensure that any of the following methods do not conflict with the aircraft manufacturers recommendations or procedures.

(1) Recommended Leveling Procedure (Method 1)

(a) Place the airplane on jacks and level the airplane in accordance with the airplane manufacturers procedures. The airplane should be leveled to within ±0.2 degree or less.

NOTES:

1. It may be desirable, in some situations, for ease of performing this procedure and for safety reasons, to have the aircraft main gear remain on the floor while pitching the aircraft. If this is the case, the roll leveling of the aircraft may be adjusted by lowering one of the main gear struts or lowering the tire pressure of one of the main tires or both.
2. The leveling of the mounting tray can be no better than the leveling of the airplane. Care should be exercised during the leveling of the airplane to ensure that the best possible airplane leveling is achieved.
3. The accuracy of the tray heading alignment is dependent on the placement of the jacks. The wing jacks should be placed such that they are an equal distance back from the nose jack and perpendicular to the longitudinal axis of the airplane so that when the airplane pitch attitude is changed by the nose jack there is no roll change introduced in the original roll level. This is very important in order for the yaw alignment correction to be accurate.
4. While the airplane is on jacks, small changes in the level position may be introduced which could affect the accuracy of the alignment procedure. Such changes could occur due to wind through an open hangar door or personnel moving around inside or on the airplane. Once the airplane level has been achieved, no changes to the airplane loading or position should be made.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

(b) If applicable, place the mounting tray on the surface to which the tray will be mounted and secure the tray snugly with the four sets of mounting hardware. The two mounting holes at the blower end of the rack are elongated to provide for yaw adjustment. The mounting bolts for these two elongated holes should be centered in the slots. This software method is capable of correcting for as much as 40 degrees of mechanical tray misalignment.

(c) Slide the UG5046 Leveling Fixture into the three guide pins of the mounting tray. Secure the leveling fixture to the mounting tray by tightening the two thumbwheel clamps over the support hooks. Hand tighten only.

NOTE: Figure 4-4 represents the UG5046 Leveling Fixture. The sensitivity of the circular level is 0.1 degree (6 arc minutes) per graduation. The sensitivity of the tubular levels is 20 arc seconds (0.0055 degree) per graduation.

(d) The IRS Installation Software displays pitch, roll and heading in radians. As an aid, Table 4-1 provides a degree-radian conversion.

Table 4-1. Degree-Radian Conversion

Degree	Radian
1.0000 degree (60 arc minutes)	.017453 radian
0.2000 degree (12 arc minutes)	.003491 radian
0.1000 degree (6 arc minutes)	.001745 radian
0.0055 degree (20 arc seconds)	.000096 radian

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

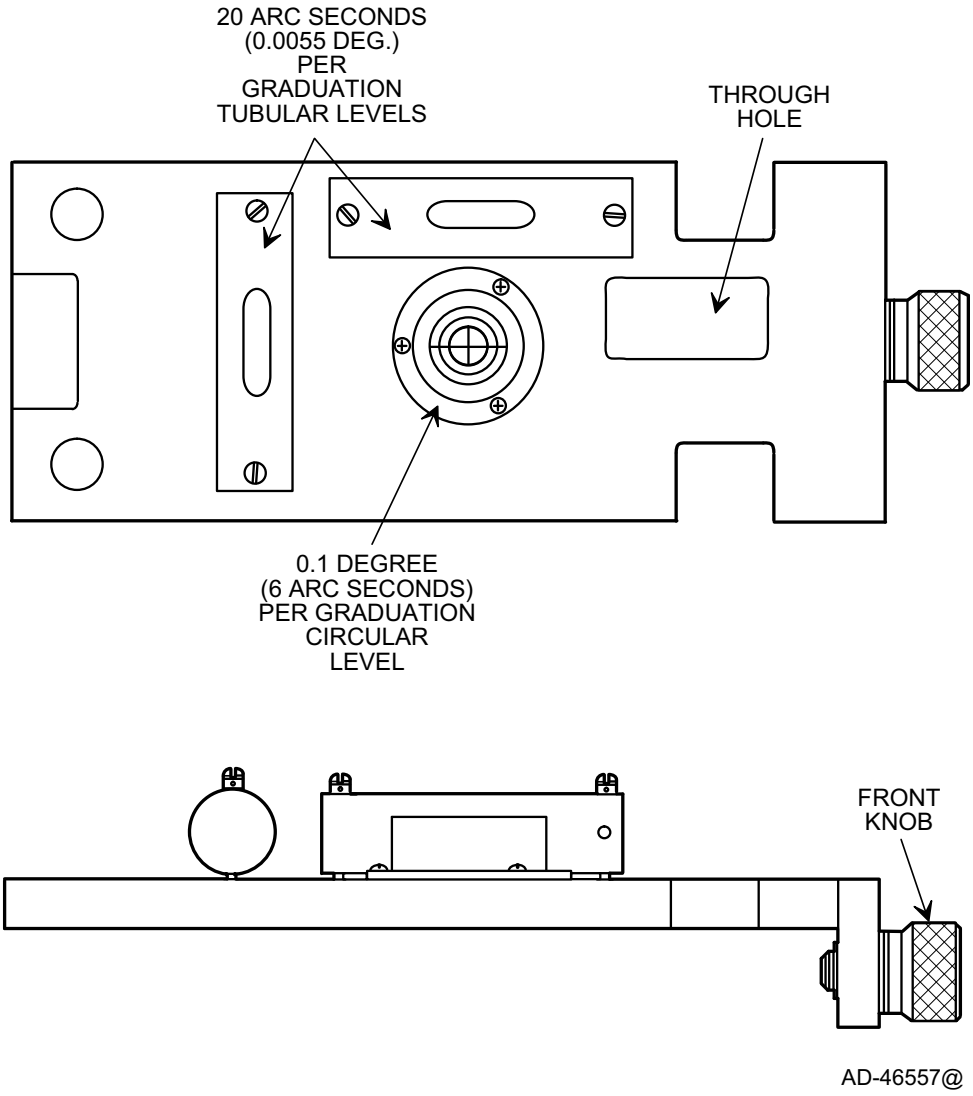


Figure 4-4. AHRU/IRU Leveling Fixture

(e) Check the circular level of the leveling fixture. The tubular levels are not used in this procedure. Adjust the level of the mounting tray by installing shims, as required, to have the bubble in the circular level inside of the second ring (refer to Figure 4-4). The mounting tray will be level to within 0.2 degrees with respect to the airframe.

(f) Torque the four mounting bolts to 25 inch-pounds ± 5 inch-pounds. Check the circular level and verify that the bubble has not moved outside of the second ring. The mounting tray will now be level in pitch and roll to ± 0.2 degree with respect to the airframe. The leveling fixture may now be removed from the mounting tray.

(g) Install the IRU in the mounting tray in accordance with paragraph 15.A.(2).

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

(2) Optional Mechanical Leveling Procedure (Method 2)

(a) Perform steps in paragraph 18.B.(1)(a), (b), and (c).

(b) Check the circular level of the leveling fixture. Adjust the level of the mounting tray by installing shims, as required, to have the bubble in the circular level inside of the second ring (refer to Figure 4-4). The mounting tray will be level to within 0.2 degrees with respect to the airframe.

(c) Using the thumbwheel adjustments, adjust the tubular level, which is perpendicular to the longitudinal axis of the aircraft (the roll tubular level), until the bubble is centered.

NOTE: The sensitivity of the tubular level is 20 arc seconds per division.

(d) Raise or lower the nose of the airplane at least 1 degree. Note the position of the bubble in the tubular level. The bubble should be within one division of the center starting position. If the bubble has moved more than one division, adjust the mounting tray, by rotating the tray, to take out one half of the change in the position of the bubble. Note the position of the bubble in the tubular level for use in the next step.

(e) Return the airplane to its original level position. Check the position of the bubble in the tubular level. It should be within one division of the position in step 18.B.(2)(d). Check the position of the bubble in the circular level. It should still be within the second ring. If the position of the bubble in the tubular level has moved more than one division, repeat steps 18.B.(2)(d) and (e). If repeating steps (d) and (e) is not successful, the entire leveling procedure must be repeated.

(f) When step 18.B.(2)(e) is successful, torque the four mounting bolts to 25 inch-pounds ± 5 inch-pounds. Check that the bubble in the circular level is within the second ring and note the position of the bubble in the tubular level. Pitch the airplane the same amount that was used in step 18.B.(2)(d) and note that the bubble in the tubular level did not move more than one division.

(g) Return the airplane to level, remove the leveling fixture and install the IRU in the mounting tray in accordance with paragraph 15.A.(2).

C. Repair Procedures

Not Applicable.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

19. Procedure for the Mode Select Unit (MSU)

A. Removal and Reinstallation Procedures

(1) Remove MSU.

(a) Disengage the Dzus fasteners on the unit.

(b) Slide the unit out of the aircraft mounting location and disconnect the cable connector(s).

(2) Reinstall MSU.

(a) Mate the cable connector(s) with the unit connector(s) and slide the unit into the aircraft mounting location.

(b) Engage the Dzus fasteners on the unit.

B. Adjustment Procedures

Not Applicable.

C. Repair Procedures

Not Applicable.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

20. Procedure for the RC-820 Reversionary Controller

A. Removal and Reinstallation Procedures

(1) Remove RC-820 Reversionary Controller.

(a) Disengage the Dzus fasteners on the unit.

(b) Slide the unit out of the aircraft mounting location and disconnect the cable connector.

(2) Reinstall RC-820 Reversionary Controller.

(a) Mate the cable connector with the unit connector and slide the unit into the aircraft mounting location.

(b) Engage the Dzus fasteners on the unit.

B. Adjustment Procedures

Not Applicable.

C. Repair Procedures

(1) Replacement of the SG Knob and PUSH TEST Pushbutton

NOTE: The pushbutton setscrews are reached through access holes in the outer knob.

(a) Rotate the outer knob to the NORM position.

(b) Use a 0.048 inch O.D., 6 flute, Bristol wrench to loosen the setscrews in the outer knob.

(c) Rotate outer knob until access hole lines up with setscrews on inner PUSH TEST pushbutton and loosen two setscrews.

(d) Slide the knob and pushbutton off of the shaft.

(e) On new knob and pushbutton, make sure that the setscrews are out far enough to allow knobs to slide onto shaft. Apply retaining compound to setscrews.

(f) Slide the outer knob onto the shaft. Do not tighten setscrews.

(g) Slide the PUSH TEST pushbutton onto the shaft.

(h) Align the access holes in the outer knob with the setscrews in the PUSH TEST pushbutton.

(i) Tighten the PUSH TEST pushbutton setscrews.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

(j) Ensure that the space between the knob and the front panel is approximately 0.030 inch (0.8 mm).

(k) Tighten the knob setscrews.

(l) Visually check the spacing between the knob and front panel to ensure that the knob has not slipped during installation.

(2) Replacement of the BRT and OFF/REV Knobs

(a) Rotate inner and outer knobs to OFF position.

(b) Use a 0.048 inch O.D., 6 flute, Bristol wrench to loosen the setscrews.

(c) Slide the knobs off of the shaft.

(d) On new knob, make sure that the setscrews are out far enough to allow the knob to slide onto the shaft. Apply retaining compound to setscrews.

(e) Slide the outer knob onto the shaft ensuring that the line aligns with the OFF/REV position.

(f) Ensure that space between knob and front panel is approximately 0.030 inch (0.8 mm).

(g) Tighten the knob setscrews.

(h) Recheck spacing between knob and front panel to ensure that knob has not slipped during installation.

(i) Slide the inner knob onto the shaft making sure that the knob does not rub against the outer knob and that the line aligns with the OFF/REV position.

(j) Tighten the knob setscrews.

(k) Recheck to make sure that the inner knob has not slipped during installation and is not rubbing against the outer knob.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

21. Procedure for the RC-841 Reversionary Controller

A. Removal and Reinstallation Procedures

(1) Remove RC-841 Reversionary Controller.

(a) Remove and set aside four flat-head mounting screws.

(b) Slide unit out of panel and disconnect cable connector.

(2) Reinstall RC-841 Reversionary Controller.

(a) Mate cable connector with unit connector and slide unit into panel.

(b) Secure unit with four flat-head mounting screws that were previously set aside.

B. Adjustment Procedure

Not Applicable.

C. Repair Procedures

(1) Replacement of the EICAS DSPLY and XFR/DIM Knobs

(a) Set outer knob to NORM position.

(b) Use a 0.048 inch O.D., 6 flute, Bristol wrench to loosen the setscrews.

(c) Slide the knobs off of the shaft.

(d) On new knobs, make sure that the setscrews are out far enough to allow the knob to slide onto the shaft. Apply retaining compound to setscrews.

(e) Slide the outer knob onto the shaft ensuring that the white line aligns with the NORM position.

(f) Ensure that space between knob and front panel is approximately 0.030 inch (0.8 mm).

(g) Tighten the knob setscrews.

(h) Recheck spacing between knob and front panel to ensure that knob has not slipped during installation.

(i) Slide the inner knob onto the shaft making sure that the knob does not rub against the outer knob.

(j) Tighten the knob setscrews.

(k) Recheck to make sure that the inner knob has not slipped during installation, and is not rubbing against the outer knob.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

(2) Replacement of the SG Knob and PUSH TEST Pushbutton

NOTE: The pushbutton setscrews are reached through access holes in the select knobs.

(a) Rotate the outer knob to the NORM position.

(b) Use a 0.048 inch O.D., 6 flute, Bristol wrench to loosen the setscrews in the outer knob.

(c) Rotate outer knob until access hole lines up with setscrews on inner PUSH TEST pushbutton and loosen two setscrews.

(d) Slide the knob and pushbutton off of the shaft.

(e) On new knob and pushbutton, make sure that the setscrews are out far enough to allow knob and pushbutton to slide onto shaft. Apply retaining compound to setscrews.

(f) Slide the outer knob onto the shaft. Do not tighten setscrews.

(g) Slide the PUSH TEST pushbutton onto the shaft.

(h) Align the access holes in the outer knob with the setscrews in the PUSH TEST pushbutton.

(i) Tighten the PUSH TEST pushbutton setscrews.

(j) Ensure that the space between the knob and the front panel is approximately 0.030 inch (0.8 mm).

(k) Tighten the knob setscrews.

(l) Visually check the spacing between the knob and front panel to ensure that the knob has not slipped during installation.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

22. Procedure for the RT-300 Radio Altimeter Receiver Transmitter

A. Removal and Reinstallation Procedures

(1) Remove RT-300.

(a) Disconnect aircraft cable and antenna connectors.

(b) Remove and set aside mounting hardware on front of unit and loosen mounting hardware on rear of unit and remove unit.

(2) Reinstall RT-300.

(a) Slide unit into mounting tray and secure with applicable hardware.

(b) Mate aircraft cable and antenna connectors.

B. Adjustment Procedures

Adjustment for the Radio Altimeter Display Zero Ground

NOTE: There are two ways that the zero ground adjustment can be accomplished. The preferred and most accurate way is described in paragraph 22.B.(1). If a cable (Figure 4-5) is not available to perform this procedure, then the alternate procedure in paragraph 22.B.(2) can be used.

(1) Preferred RT-300 Zero Ground Adjustment

(a) Connect cable (Figure 4-5) in-line with the aircraft cable and the RT-300.

(b) Check that the RT-300 transmit and receive ports (J2 and J3) are connected to the antennas.

(c) Connect a digital voltmeter (DVM) to the cable meter leads.

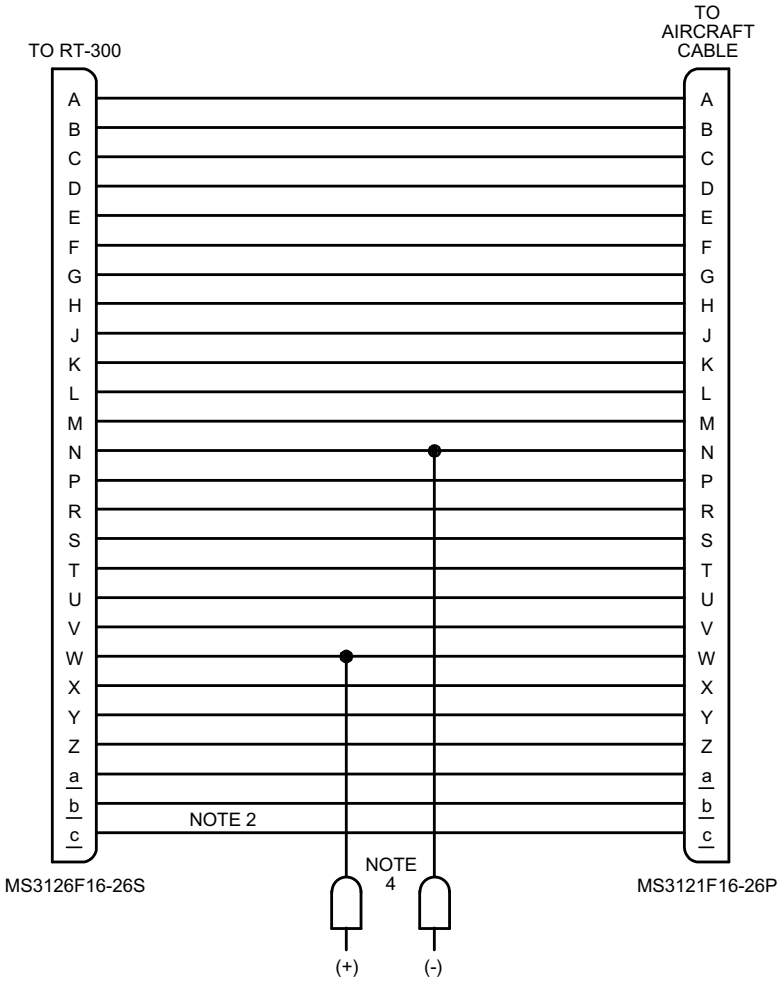
(d) Apply power to the RT-300.

(e) Adjust the potentiometer, that is accessible through hole in front panel of RT-300, for 0 ± 2 mV indication on DVM.

(f) Remove power and disconnect adjustment cable.

(g) Connect aircraft cable to RT-300.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.



NOTES:
1. ALL WIRING 22 AWG, EXCEPT AS NOTED.
2. WIRING FOR PINS b AND c IS 20 AWG.
3. LENGTH OF CABLE IS SIX INCHES.
4. LENGTH OF DVM LEADS ARE AS REQUIRED. CONNECT PLUG TO LEADS AS REQUIRED TO CONNECT TO DVM.

AD-31291@

Figure 4-5. RT-300 Zero Adjustment Cable

(2) Alternate RT-300 Zero Ground Adjustment

(a) Apply power to the RT-300.

(b) Adjust the potentiometer, that is accessible through hole in front panel of RT-300, until a positive radio altitude is displayed on one of the PFDs.

(c) Adjust the potentiometer for zero foot display indication on the PFD.

C. Repair Procedures

Not Applicable.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

23. Procedure for the SM-200 Servo Drive, and the SB-201 Drum and Bracket Assembly

A. Removal and Reinstallation Procedures

(1) Remove SM-200.

(a) Disconnect cable connector from servo drive.

(b) Cut safety wire and remove four screws securing servo drive to drum and bracket assembly.

(c) Slide servo drive out of drum and bracket assembly.

(2) Reinstall SM-200.

(a) Slide servo drive into rear of drum and bracket assembly and secure with four screws, Honeywell Part No. 4011086. Safety wire all four screws with Low Mu Monel wire, 0.020 inch diameter.

(b) Mate servo drive connector with cable connector.

(3) Remove SB-201.

(a) Remove servo drive in accordance with paragraph 23.A.(1).

(b) Release bridle cable tension.

(c) Cut safety wire on four screws securing retaining plate, and remove and set aside screws and retaining plate.

(d) Remove and set aside four cable keepers, Honeywell Part No. 2518330.

(e) Cut safety wire and remove and set aside two screws securing swaged cable terminals to drum.

(f) Unwrap bridle cables from drum.

(g) Remove and set aside four nuts, bolts and washers securing drum and bracket assembly to airframe.

(h) Lift drum and bracket assembly away from airframe.

(4) Reinstall SB-201.

(a) Mount drum and bracket assembly rigidly to airframe with four 1/4 inch diameter bolts of sufficient length, and four suitable lock washers and nuts.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

INSTALLATION CRITICAL

TO ENSURE CABLE TERMINAL CAPTURE, USE ONLY 0.138-32-NC-2A STAINLESS STEEL DRILLED SCREWS, HONEYWELL PART NO. 2554911-1. STANDARD FILLISTER-HEAD SCREWS MAY NOT PROPERLY RETAIN THE CABLE TERMINAL.

(b) Wrap bridle cables around servo bracket drum. Secure swaged cable terminals to servo bracket drum with screws removed in paragraph 23.A.(3)(e), or if new servo, use screws supplied with new servo. Safety wire screws through adjacent holes in drum with Low Mu Monel wire, 0.020 inch diameter and 4 inches long.

(c) Adjust control system and bridle cables to proper tension as instructed in the aircraft maintenance manual.

INSTALLATION CRITICAL

TO ENSURE THAT THE CABLE CANNOT JAM BETWEEN THE DRUM AND KEEPERS, THE DISTANCE BETWEEN THE KEEPERS AND DRUM SHALL BE MEASURED AFTER THE KEEPERS AND RETAINING PLATE ARE INSTALLED. THE DISTANCE BETWEEN THE DRUM AND KEEPERS SHALL NOT EXCEED 0.040 INCH AND SHALL NOT BE LESS THAN 0.005 INCH. THE 3/32-INCH CABLE DIAMETER SHALL BE VERIFIED. THESE ARE CRITICAL INSTALLATION REQUIREMENTS.

(d) Install two of four cable keepers, removed in paragraph 23.A.(3)(d), on the servo bracket at points of cable tangency to drum. The other two keepers must be located at 90 degrees from the first two.

(e) Install retaining plate, Honeywell Part No. 2518332, on the slotted end of the cable keepers using the four 5/16 inch long, No. 8-32, drilled fillister-head screws removed in paragraph 23.A.(3)(c). Safety wire these four screws with Low Mu Monel wire, 0.032 inch in diameter and 4 inches long.

(f) Reinstall servo drive in accordance with paragraph 23.A.(2).

B. Adjustment Procedures

Not Applicable.

C. Repair Procedures

Not Applicable.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

24. Procedure for the SM-725 Linear Actuator

A. Removal and Reinstallation Procedures

(1) Remove linear actuator.

CAUTION: DO NOT APPLY TORQUE BETWEEN OUTPUT ROD AND HOUSING DURING REMOVAL.

(a) Disconnect cable connector from actuator.

(b) Remove cotter pin, bolt, washer, and nut securing fork end of actuator to airframe fitting.

(c) Remove cotter pin, bolt, washer, nut, and bushing securing rod end bearing of actuator to airframe fitting.

(d) If replacing the actuator, remove the following:

1 Unscrew rod end bearing. Cut safety wire and remove nut and washer.

2 Unscrew fork end assembly. Cut safety wire and remove nut and washer.

(2) Reinstall linear actuator.

INSTALLATION CRITICAL

ENSURE THAT PART NUMBER MARKED ON ACTUATOR IDENTIFICATION PLATE IS 7002800-901.

CAUTION: DO NOT APPLY TORQUE BETWEEN OUTPUT ROD AND HOUSING DURING INSTALLATION. EVIDENCE OF TORQUE DAMAGE IS MISALIGNMENT (GREATER THAN 5 DEGREES) OF THE OUTPUT ROD KEY SLOT AND INDEX MARK.

(a) Before assembling actuator, ensure actuator is set to mid-stroke. Length of actuator at mid-stroke is 9.020 to 9.120 inches, as shown in Figure 4-6. If not at mid-stroke, center actuator.

NOTES: 1. To center actuator, brake must be released by applying 28 volts dc to pin E with pin F connected to ground.

2. Refer to Figure 4-6 for parts location of attaching hardware in the following steps.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

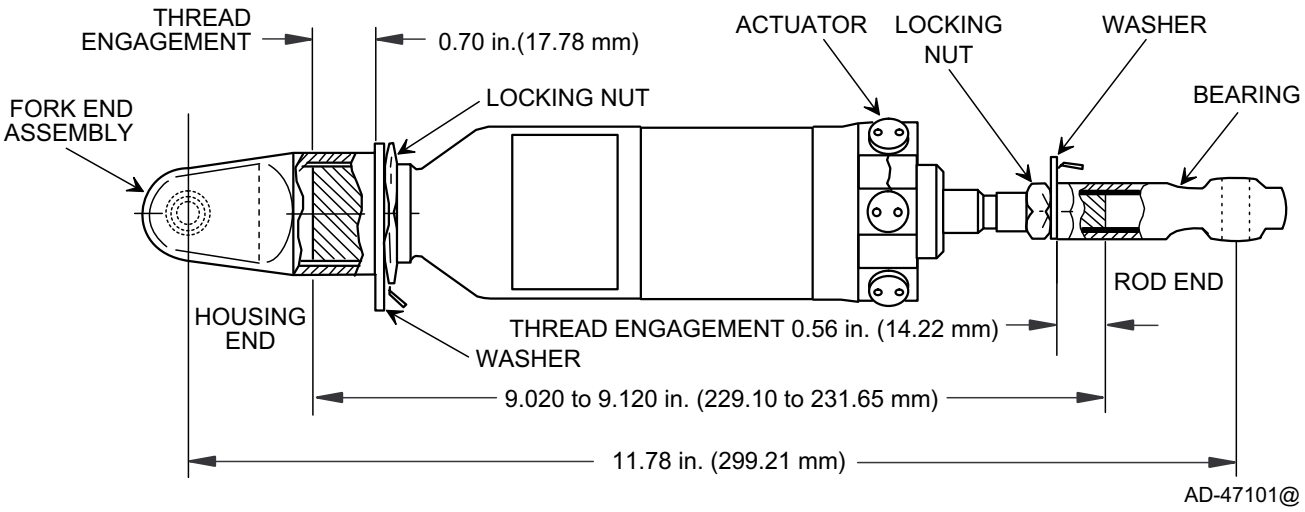


Figure 4-6. SM-725 Actuator Complete Assembly

(b) Assemble locking nut and washer to housing end of actuator.

INSTALLATION CRITICAL

THREAD ENGAGEMENT WITH FORK END ASSEMBLY MUST BE 0.70 IN. (17.78 MM) MINIMUM.

(c) Thread fork end assembly to actuator. Tighten locking nut and install safety wire.

(d) Assemble locking nut and washer to rod end of actuator.

INSTALLATION CRITICAL

THREAD ENGAGEMENT WITH ROD END BEARING MUST BE 0.56 IN. (14.22 MM) MINIMUM.

(e) Thread Rod end bearing to actuator. Tighten locking nut and install safety wire.

(f) Attach fork end of actuator to airframe fitting and secure with bolt, washer, castellated nut, and cotter pin.

(g) Attach rod end bearing of actuator to airframe fitting with bolt and bushing.

(h) Check alignment in accordance with the aircraft maintenance manual.

(i) Secure actuator rod end attachment bolt with washer, nut, and cotter pin.

(j) Connect aircraft cable connector to actuator connector.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

B. Adjustment Procedures

Not Applicable.

C. Repair Procedures

Not Applicable.

25. Procedure for the SM-810 Autothrottle Servo

A. Removal and Reinstallation Procedure

(1) Remove SM-810 Autothrottle Servo.

(a) Release bridle cable tension.

(b) Cut safety wire on four nuts securing retaining plate, and remove and set aside screws, lock washers, and retaining plate.

(c) Remove and set aside four cable keepers.

(d) Cut safety wire and remove and set aside two screws securing swaged cable terminals to drum.

(e) Unwrap bridle cables from drum.

(f) Remove and set aside four nuts, bolts, and washers securing drum and bracket assembly to airframe.

(g) Disconnect cable connector and lift servo assembly away from airframe.

(2) Reinstall SM-810 Autothrottle Servo.

(a) Mount servo assembly rigidly to airframe with four 1/4 inch diameter bolts and four lock washers and nuts removed in paragraph 25.A.(1)(f).

(b) Connect aircraft cable connector to servo connector.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

INSTALLATION CRITICAL

TO ENSURE CABLE TERMINAL CAPTURE, USE ONLY 0.138-32-NC-2A STAINLESS STEEL DRILLED SCREWS, HONEYWELL PART NO. 2554911-1. STANDARD FILLISTER-HEAD SCREWS MAY NOT PROPERLY RETAIN THE CABLE TERMINAL.

(c) Wrap bridle cables around servo drum. Secure swaged cable terminals to servo drum with screws removed in paragraph 25.A.(1)(d), or if a new servo, use screws supplied with new servo. Safety wire screws through adjacent holes in drum with Low Mu Monel wire, 0.020 inch diameter and 4 inches long.

(d) Adjust control system and bridle cables to proper tension as instructed in the aircraft maintenance manual.

INSTALLATION CRITICAL

TO ENSURE THAT THE CABLE CANNOT JAM BETWEEN THE DRUM AND KEEPERS, THE DISTANCE BETWEEN THE KEEPERS AND DRUM SHALL BE MEASURED AFTER THE KEEPERS AND RETAINING PLATE ARE INSTALLED. THE DISTANCE BETWEEN THE DRUM AND KEEPERS SHALL NOT EXCEED 0.036 INCH AND SHALL NOT BE LESS THAN 0.005 INCH. THE 3/32-INCH CABLE DIAMETER SHALL BE VERIFIED. THESE ARE CRITICAL INSTALLATION REQUIREMENTS.

(e) Install two of four cable keepers, supplied with new servo or removed in paragraph 25.A.(1)(c), on the servo bracket at points of cable tangency to drum. The other two keepers must be located at 90 degrees from the first two.

(f) Install retaining plate, supplied with new servo or removed in paragraph 25.A.(1)(b), on the end of the cable keepers and secure with four nuts and lock washers supplied with new servo or removed in paragraph 25.A.(1)(b). Safety wire these four nuts with Low Mu Monel wire, 0.020 inch in diameter and 4 inches long.

B. Adjustment Procedures

Not Applicable.

C. Repair Procedures

Not Applicable.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

26. Procedure for the WC-880 Weather Radar Controller

A. Removal and Reinstallation Procedures

(1) Remove WC-880 Weather Radar Controller.

(a) Disengage the Dzus fasteners on the unit.

(b) Slide the unit out of the aircraft mounting location and disconnect the cable connector.

(2) Reinstall WC-880 Weather Radar Controller.

(a) Mate the cable connector with the unit connector and slide the unit into the aircraft mounting location.

(b) Engage the Dzus fasteners on the unit.

B. Adjustment Procedures

Not Applicable.

C. Repair Procedures

Replacement of the Control Knobs

NOTE: Each knob has two 2-56 setscrews. Use a 0.048 inch O.D., 6 flute, Bristol wrench.

(1) Loosen the setscrews.

(2) Slide the knob off the shaft.

(3) On new knob make sure that the setscrews are out far enough to allow the knob to slide onto the shaft. Apply retaining compound to setscrews.

(4) Slide the knob onto the shaft.

(5) Make sure that the space between the knob and the front panel is approximately 0.030 inch (0.8 mm).

(6) Tighten the setscrews.

(7) Visually check the spacing between the knob and the front panel to make sure that the knob has not slipped during installation.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

27. Procedure for the WU-870 Antenna and Receiver Transmitter Unit

A. Removal and Reinstallation Procedures

(1) Remove WU-870.

(a) Disconnect the cable connector from the unit.

(b) Remove and set aside the hardware securing the unit to the airframe.

(2) Reinstall WU-870.

(a) Secure unit to airframe with applicable hardware.

(b) Mate the cable connector with the unit connector.

B. Adjustment Procedures

(1) Adjust WU-870 Antenna and Receiver Transmitter Unit on ground.

NOTE: This procedure must be done by two persons. One in the cockpit, and one at the WU-870.

WARNINGS:
1. POSITION AIRCRAFT RADAR SYSTEM TO FACE AWAY FROM BUILDINGS, LARGE METAL STRUCTURES, OR OTHER AIRCRAFT IN CLOSE PROXIMITY BEFORE YOU TURN IT ON. THEY ARE LIKELY TO RETURN LARGE AMOUNTS OF REFLECTED ENERGY AND CAUSE DAMAGE TO THE SYSTEM.
2. DO NOT OPERATE RADAR WITHIN 50 FEET OF OTHER AIRCRAFT OR OBJECTS, OR CLOSER THAN 100 FEET TO REFUELING OPERATIONS.
3. NEVER LOOK DIRECTLY INTO THE ANTENNA (WHILE IT IS OPERATING) FOR PROLONGED PERIODS OF TIME AT A CLOSE RANGE. SERIOUS EYE TISSUE DAMAGE CAN RESULT DUE TO THE HEATING EFFECT OF RADAR ENERGY. THE MAXIMUM PERMISSIBLE EXPOSURE LEVEL (MPEL) BOUNDARY IS A RADIUS OF 12 FT (366 CM). REFERENCE SECTION 2, CHAPTER 5 FOR DETAILS.

(a) Before applying power to the radar, set SCAN and XMTR toggle switches, on the WU-870 housing, to OFF (toward antenna).

(b) Level the pitch and roll axes of the aircraft relative to the earth's surface.

(c) Verify that the mounting surface of the WU-870 is aligned to the pitch and roll reference axes of the aircraft within ±1/4 degree.

(d) Apply aircraft power as necessary.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

(e) On the WC-880 Weather Radar Controller, make the following selections:

- RADAR = SBY
- TILT = 0°
- GAIN = Push knob in for preset gain.

(f) Verify, in the SBY mode, that the flat plate antenna is at 0 within ±1/2 degrees. If not, adjust the elevation feedback potentiometer R1 for 0 ±1/4 degrees.

(g) Press and hold the IRS TEST switch pushbutton. This simulates 15 degrees of nose up pitch and 5 degrees of right roll.

(h) Verify that the antenna tilts down 15 ± 2 degrees.

(i) Release IRS TEST switch pushbutton.

(j) Pull out GAIN knob to select variable gain. This places the WU-870 in the roll calibration mode.

(k) Press and hold IRS TEST switch pushbutton.

(l) Verify that the antenna tilts up 5 ± 1 degrees.

(m) Release IRS TEST switch pushbutton.

(n) Remove power from the radar.

(o) Set SCAN and XMTR toggle switches, on the WU-870 housing, to ON (away from antenna).

(p) Apply aircraft power as necessary.

(q) Verify, in the SBY mode, that the antenna is tilted up 15 ± 2 degrees.

(2) Adjust WU-870 Antenna and Receiver Transmitter in-flight.

(a) At an altitude of 10,000 feet (3,048 meters) above the ground or greater, establish a wings-level cruise altitude.

(b) On the WC-880 Weather Radar Controller, select WX mode, variable GAIN, and RCT OFF. Select 100 NM range using cockpit mounted range switches. Observe VAR on MFD.

(c) Adjust the antenna tilt down until a fairly solid band of ground clutter is visible.

(d) Select RCT on-off-on-off within three seconds by setting RADAR knob between RCT and WX. VAR should not be displayed. This puts the radar in the roll compensation mode.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

(e) Set RADAR knob between RCT and WX again and make sure that VAR is not displayed. If it is, repeat this step.

(f) Adjust the GAIN control on the WC-880 Weather Radar Controller until the ground clutter display is symmetrical.

(g) Do not touch the manual GAIN control once the display is adjusted properly.

(h) Select RCT on-off-on-off within three seconds by setting RADAR knob between RCT and WX. This causes the WU-880 to exit the roll compensation mode. When VAR is displayed again, the roll compensation mode has been exited.

(i) Set variable or preset GAIN as desired.

(j) This compensation data is now stored in nonvolatile memory in the WU-870 and will not be erased when power is removed from the system.

C. Repair Procedures

Not Applicable.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

SECTION 5
SHIPPING, HANDLING AND STORAGE

Refer to manual, Pub. No. 09-1100-01, for detailed procedures for preparing all System components for storage or shipment.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

(Blank Page)

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

TABLE OF CONTENTS - SECTION 6

SECTION/PARAGRAPH/TITLE **PAGE**

6 HONEYWELL SUPPORT 6-1
1. Worldwide Exchange/Rental Program for Corporate Operators 6-1
2. Test Equipment 6-5
3. Customer Engineering 6-5
4. Training 6-5
5. Honeywell Product Support Centers 6-6
6. Corporate Operations Customer Engineering Locations 6-8

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

(Blank Page)

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

SECTION 6
HONEYWELL SUPPORT

1. Worldwide Exchange/Rental Program for Corporate Operators

Honeywell's SPEX® program is a worldwide exchange/rental service for corporate operators. It provides an extensive service for LRU end-item products, complementing our worldwide support center network. An inventory of more than 8000 spare components ensures that your Honeywell equipped aircraft will be returned to service promptly and economically. This service is available both during and after warranty.

A. Exchange

Upon receipt of an exchange request, Honeywell ships a fully certified unit. The SPEX® provided unit becomes the property of the customer. The customer returns the faulty unit in exchange, to the designated Honeywell Product Support Center, where it becomes the property of Honeywell. All exchange units are updated with the latest performance reliability MODs on an attrition basis while in the repair cycle.

B. Rental

Upon receipt of a rental request, Honeywell ships a fully-certified unit. The customer then ships the faulty unit to an authorized support center for service. When the faulty unit has been serviced and installed, the rental unit is returned to the designated Honeywell Product Support Center.

C. Warranty

The SPEX® 12-month warranty commences upon the purchase of an exchange unit by the customer at catalog list price.

Any exchange or repair action taken during the New Product or SPEX® warranty period does not extend or otherwise affect the warranty expiration date.

Services provided for a failed unit under New Product warranty include:

- Free repair and/or free rental (during repair of unit), or
- Free exchange.

Services provided for a failed unit under SPEX® warranty include:

- Free repair and billable rental, or
- Free exchange.

Services provided for a failed unit under repair warranty include:

- Free rental if the customer paid for a billable rental during the initial repair of the failed unit.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

D. Warranty Statement

Honeywell warrants that any article provided under the SPEX® program will, at the time of delivery, conform to all applicable specifications and drawings, and be free of defects in material and workmanship. Honeywell's obligation under this warranty, however, shall be limited to repair of, or at Honeywell's option, replacement of any article which is returned to Honeywell within the stipulated twelve-month warranty period.

For further information regarding exchange or rental units, contact any of the Honeywell facilities listed at the end of this section or refer to Honeywell Pub. No. A65-8200-001.

E. Exchange and Rental Ordering

(1) Telephone Numbers

Place an order by calling one of the following numbers:

- UNITED STATES, DALLAS, TX 1-800-872-7739
  (214) 402-4300
- CANADA, OTTAWA, ONT 1-800-267-9947
- UNITED KINGDOM, BASINGSTOKE 44-1256-51111
- FRANCE, TOULOUSE 33-6171-9662
- GERMANY, GAUTING 49-89-89317-226
  (After normal working hours) 49-89-850-3695
- SINGAPORE 65-542-1313
- AUSTRALIA, TULLAMARINE 61-3-330-1411
- BRAZIL, SÃO PAULO . . . . . 55-11-535-0513.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

(2) Ordering Information

When placing an order, Honeywell needs the following information:

- Part number with dash number of faulty unit
- Serial number of faulty unit
- Aircraft type, serial number, and registration number
- Aircraft owner
- Reported complaint with faulty unit
- Service requested (Exchange or Rental)
- Shipping address
- If faulty unit is in warranty
  - Type of warranty (New or SPEX)
  - Date warranty started
- If faulty unit is NOT in warranty, provide billing address
- If faulty unit is covered under a maintenance contract
  - Type of contract
  - Contract I.D. number
- Purchase order number.

NOTES: 1. Units will ship same day or within 24 hours.

2. Shipments within the U.S. will be shipped "Next Day Air, P.M. Delivery", unless otherwise specified.

(3) Return Shipping Procedures

(a) Shipping Container

All components returned to Honeywell must be packed in the same (or Honeywell approved equivalent) container in which the component was received. Components which are received in IMPROPER containers may be subject to DAMAGE charges.

NOTE: Please ship the return unit to the support center indicated on the document provided. Include completed multi-page exchange & rental tag attached to unit, and any additional information, if required.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

(b) Shipping Instructions

1 For North America Customers:

Ship via Federal Express Standard Air, two-day delivery. If not served by Federal Express, ship via airline direct airfreight, not via a freight forwarder. Shipment via a surface carrier may result in assessment of LATE RETURN CHARGES.

2 For Europe and Africa Customers

Return unit to the Honeywell Customer Support Center which issued the replacement or with prior arrangement to any one of the following addresses:

a Honeywell Avionics Systems Ltd.
c/o Burlington Air Express
Unitiair Centre, Great South West Road
Feltam, Middlesex TW 14 8NT
England, U.K.

b Honeywell Aerospace
1, Rue Marcel Doret
31700 Blagnac
c/o SCAC Air Service
6, Allee Henri Potez
31702 Blagnac

3 For Other International Customers

Return unit to the Honeywell Customer Support Center which issued the replacement. Shipments returning to the United States should be via Burlington Air Express. If you are not served by Burlington Air Express, ship via Emery Airfreight or by direct airline airfreight. Consign shipments to:

Honeywell Inc.
c/o F. H. Kaysing Co.
U.S. Customs House Broker
Mid Continent Airport
Wichita, Kansas 67209
U.S.A.

NOTE: Do not insure or declare an insurance value on the bill of lading. Honeywell is self-insured.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

2. Test Equipment

Specialized test equipment is not required for normal flight line maintenance of Honeywell avionics. Certain standard, commercially available avionics aids such as ramp (signal) checkers, oscilloscopes, meters, etc., may be useful for more detailed troubleshooting. A breakout box can also be helpful for certain equipment and availability of this item can be discussed with a Honeywell Customer Engineer.

3. Customer Engineering

A key element in Honeywell's corporate operations support is our worldwide customer engineering organization. The members of this group are strategically located around the world. These individuals have earned an excellent reputation within the avionics industry as the result of their high level of education, experience, dedication and responsiveness.

Customer engineering is ready to provide corporate operators with on-site technical assistance, provisioning consultation, training and regulatory agency coordination. In addition, customer engineers will provide engineering interface assistance for other interrelated equipment on the aircraft, and will support your maintenance engineers and technicians. Continuing assistance is provided through telephone consultation, or at your facility, as requirements dictate.

Refer to the list at the end of this section for corporate operations customer engineering locations, telephone and fax numbers.

4. Training

Honeywell's dedicated customer training staff is available to assist corporate operators in acquiring the technical skills and knowledge needed to operate and maintain Honeywell products.

Customer training conducts formal courses on corporate aircraft systems/products at Honeywell's Customer Training Center in Phoenix, Arizona, and at selected locations worldwide. Courses are scheduled annually based on customer interest and new aircraft delivery projections. A regularly updated Honeywell Customer Training Schedule brochure gives full details of all training courses offered.

Honeywell offers the following level of training courses:

- Operational (Pilot) Training
- Flight Line Maintenance Training
- Component Level Maintenance Training.

For full details, and information on Honeywell training courses, or a copy of the Honeywell Customer Training Schedule, contact the Customer Training Department in Phoenix, Arizona at:

- Tel: (602) 436-8972
- Fax: (602) 436-4100.

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

5. Honeywell Product Support Centers

NOTE: For further information on customer support, refer to Honeywell's Corporate Operators Customer Support and Sales Directory, Pub. No. 60-7390-17.

A. North America

Central Support Center

Honeywell Inc.
1830 Industrial Ave.
Wichita, KS 67216

Tel: (316) 522-8172
Fax: (316) 522-2693

Northwest Support Center

Honeywell Inc.
4150 Lind Ave. Southwest
Renton, WA 98055

Tel: (206) 251-9511
Fax: (206) 251-9368

Dallas Support Center

Honeywell Inc.
7825 Ridgepoint Drive
Irving, TX 75063

Tel: (214) 402-4300
Fax: (214) 402-4999

SPEX® Administration Office

Honeywell Inc.
5353 West Bell Road
Glendale, AZ 85308

Tel: (602) 436-8961
Fax: (602) 436-7350

Ohio Support Center

Honeywell Inc.
8370 Dow Circle
Strongsville, OH 44136

Tel: (216) 243-8877
Fax: (216) 243-1954

Canada Support Center

Honeywell Ltd.
Aerospace Division
3 Hamilton Ave.
Ottawa, Ontario Kly 4J4
Canada

Tel: (613) 728-4681
Fax: (613) 728-7084

24-Hour Service	
U.S.A. **1-800-USA-SPEX**	**CANADA** **1-800-267-9947**

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

B. International

France Support Center

Honeywell Aerospace
1 Rue Marcel Doret BP14
31701 Blagnac, France

Tel: 33-6212-1500
Fax: 33-6130-0258

United Kingdom Support Center

Honeywell Avionics Systems Ltd.
Edison Road
Basingstoke, Hampshire
RG21 2QD
England

Tel: 44-1256-51111
Fax: 44-1256-474932

Germany

Apparatebau Gauting Gmb
Ammerseestr. 45-39
89317-0 Gauting, Germany

Tel: 49-89-85601-0
Fax: 49-89-85601-183

Japan

Okura Aerospace Co. Ltd.
6-12 Ginza 2-Chome
Chuo-ku
Tokyo104, Japan

Tel: 3-3566-6315 or 3-3566-6313
Fax: 3-3562-4004

Australia Support Center

Honeywell Ltd.
Sperry Drive
Trade Park
Tullamarine, 3043
Victoria, Australia

Tel: 61-3-330-1411
Fax: 61-3-330-3042

Singapore Support Center

Honeywell Aerospace Pte. Ltd.
2 Loyang Crescent
Singapore 1750

Tel: 65-542-1313
Fax: 65-542-1212

Switzerland

Jet Aviation, Zurich AG
Zurich Airport
P.O. Box 1524
CH-8058 Zurich, Switzerland

Tel: 41-816-4800
Fax: 41-816-3863

South America

TAM, Taxi Aereo Marilla S/A
Rua Monsenhor Antonio Pepe, 94
Sao Paulo/SP-04357
Brazil

Tel: 55-11-577-7711, ext. 316
Fax: 55-11-533-5290

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

6. Corporate Operations Customer Engineering Locations

A. United States of America (U.S.A.)

Western U.S.A.

Phoenix, Arizona
Tel: (602) 436-4400
Fax: (602) 436-4100

Seattle, Washington
Tel: (206) 656-2705
Fax: (206) 251-9368

Los Angeles, California
Mobil: (818) 601-0626

Little Rock, Arkansas
Honeywell at Falcon Jet
Tel: (501) 372-5254
Fax: (501) 372-5650
Honeywell at Rayheon Corporate Jets
Tel: (501) 372-1501
Fax: (501) 372-5650

Dallas, Texas
Tel: (214) 402-4332
Fax: (214) 402-4399

Wichita, Kansas
Tel: (316) 522-8172
Fax: (316) 522-2693

Eastern U.S.A.

Prospect, Connecticut
Tel: (203) 758-3252

Wheeling, Illinois
Tel: (708) 577-1753
Fax: (708) 459-8023

Strongsville, Ohio
Tel: (216) 243-8877
Fax: (216) 243-1954

Altanta, Georgia
Tel: (404) 952-4445
Fax: (404) 984-8631

Fairfield, New Jersey
Mobil: (201) 822-9476

Reston, Virginia
Tel: (703) 620-4918
Fax: (703) 860-8985

B. Canada

Montreal, Quebec
Tel: (514) 855-8063
Fax: (514) 636-6417

Toronto, Ontario
Tel: (416) 375-3819
Fax: (416) 375-4531

C. South America

San Jose Dos Campos, Brazil
Tel: (55) 123-25-1861
Fax: (55) 123-41-1675

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

D. Europe and Africa

Basingstoke, England
Tel: (44) 1256-51111
Fax: (44) 1256-474932

Munich, Germany
Tel: (49) 89-404072
Fax: (49) 89-401838

Toulouse, France
Tel: (33) 6212-1500
Fax: (33) 6130-0258

Paris, France
Tel: (33) 1447-38785
Fax: (33) 1447-49446

Rome, Italy
Tel: (39) 6-5037-294
Fax: (39) 6-5034-406

E. Asia and Pacific

Singapore
Tel: (65) 542-1313
Fax: (65) 542-1212

Hong Kong
Tel: (852) 832-5681
Fax: (852) 838-3280

Melbourne, Australia
Tel: (61) 3-330-1411
Fax: (61) 3-330-3042

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.

(Blank Page)

Use or disclosure of information on this page is subject to the restrictions on the title page of this document.